

Honeywell

|CONNECTED INDUSTRIAL

MERCURY ITEM REFERENCE GUIDE

Nov 14th 2016 | Quick reference guide

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Note:

All information pertaining to a specific item code may not be contained to a single page. Overflow of information to another page does occur.

for proper electronic volume corrector operations, make sure the following item codes are correctly programmed:

000*	053	087	096	109	200	202
002*	054	089	097	110	201	203
013*	055	090*	098*	111		204
014*		092*		112*		205
034				114		

* indicates: Highly Important Items

Be aware there are many other items that affect specific operations and should be checked.

Mercury Instruments Item Reference Guide

About this guide:

This guide lists item numbers and option codes for the following products and firmware versions.

Product Name	Product Type	Firmware
EC 350	PTZ Volume Corrector	V 1.10
Mini-AT	PTZ Volume Corrector	V 7.00
Mini-Max	PTZ Volume Corrector	V 2.97
AccuTest Corrector	PTZ Volume Corrector	V 7.00
Turbo Corrector	PTZ Volume Corrector	V 7.00
Turbo Monitor	Volume Corrector	V 2.21 / V 2.20
Pulse Accumulator	Volume Accumulator	V 3.13
TCI	T-only Volume Corrector	V 1.12
ERX	P & T Recorder	V 3.34
PT Board	Modbus / BSAP Protocol Translator	V 2.31 / V4.00

In the main body of the guide, bullets appearing under an instrument name indicate that particular item code and/or option is available for that product when loaded with the firmware listed above. Instruments with older firmware may not necessarily provide all listed items or options.

Mercury Instruments Item Reference Guide

LCD Displayed 'ECodes'	Item Name	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
E069	Pulser-A Limit Alarm		•		•	•					
E070	Pulser-B Limit Alarm		•		•	•					
E071	Pulser-C Limit Alarm		•		•	•					
E072	Alarm 1 Item #		•		•	•					
E073	Alarm 2 Item #		•		•	•					
E074	Alarm 3 Item #		•		•	•					
E099	Battery Low Alarm		•	•	•	•	•				
E100	Battery Cycles Alarm		•		•	•					
E101	Memory Battery Low		•		•	•					
E102	Volume Sensor 1 Alarm		•	•	•	•					
E103	Volume Sensor 2 Alarm		•	•	•	•					
E104	System Alarm		•	•	•	•					
E105	Press Out Of Range Alarm		•		•	•					
E106	Temp Out Of Range Alarm		•		•	•					

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LCD Displayed 'ECodes'	Item Name	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
E107	Tamper Alarm	•		•							
E108	Master Alarm Output		•	•	•	•					
E143	P1 Press Low Alarm	•	•	•	•	•					
E144	Temperature Low Alarm	•	•	•	•	•					
E145	P1 Press High Alarm	•	•	•	•	•					
E146	Temperature High Alarm	•	•	•	•	•					
E164	Flow Rate High Alarm	•	•	•	•	•					
E222	Daily Cor Vol Alarm	•	•	•	•	•					
E435	Backup Volume Difference Alarm	•									
E435	REI Alarm			•							

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LCD Displayed "ECodes"	Item Name	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
E436	Reversing Flow		•	•							
E451	PLog / P3 Press High Alarm		•		•	•				•	
	P2 Press High Alarm										
E452	PLog / P3 Press Low Alarm		•		•	•				•	
	P2 Press Low Alarm										
E461	Flow Rate Low Alarm		•		•	•					
E559	P1 High Pressure Alarm									•	
E560	P1 Low Pressure Alarm									•	
E561	P2 High Pressure Alarm									•	
E562	P2 Low Pressure Alarm									•	
E563	Temperature High Alarm									•	
E565	Battery Low Volt Alarm									•	
E568	Master Alarm Output									•	
E766	Digital Input 1 Alarm				•	•					

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LCD Displayed "E Codes"	Item Name	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
E767	Digital Input 2 Alarm				•	•					
E768	Digital Input 3 Alarm				•	•					
E809	P3 High-High Alarm									•	
E810	P3 Low-Low Alarm									•	
E825	Accuracy Changed				•						
E826	Accuracy Alarm				•	•					
E874	Pulsing Gas Alarm				•	•	•				
E875	TIB Internal Fault				•	•	•				
E876	TIB Alarms Output				•	•	•				
E877	TIB Normal Alarm				•	•	•				
E878	TIB Abnormal Alarm				•	•	•				
E1025	Super Comp Calc Alarm	•									

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LCD Displayed "ECodes"	Item Name	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
E1035	Metrological Config Change(s) Alarm	•									
E1058	PNPPT1 Transducer Alarm	•									
E1059	PNPPT2 Transducer Alarm	•									
E1335	Temp Probe Alarms	•									
E1392	HMI Login Alarm	•									
E1409	Alarm Record CRC Alarm	•									
E1410	Event Record CRC Alarm	•									
E1411	Audit Log CRC Alarm	•									
E1424	Vol Sensor-3 Alarm	•									
E1425	Vol Sensor-4 Alarm	•									

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
0	Corrected Volume Totalized volume, corrected to base conditions (P-T-Z). Volume pulses weighted by Correction Factor (Item 043). Volume units defined by Item 090. Number of digits defined by Item 096. Abbreviated as: 'CorVol'	0		•	•	•	•	•			•		
	Ch-1 Fixed Factor Volume Totalized volume of Pulse Accum with Fixed Factor applied. Volume units defined by Item 090. Number of digits defined by Item 096.										•		
1	Pressure Corrected Volume Totalized pressure corrected volume readings. Select the desired volume units at items: 091. Obsoleted Item.	0			•		•	•					
2	Uncorrected Volume Totalized meter volume (no correction). Volume units defined by Item 092. Number of digits defined by Item 097. Abbreviated as: 'UncVol'.	0		•	•	•	•	•			•		
	Ch-1 Accumulated Volume Totalized volume of Pulse Accum. Volume units defined by Item 092. Number of digits defined by Item 097.										•		
3	CorVol @ Low Press CorVol accumulated during Low Pressure Alarm condition.	0			•		•	•					

Mercury Instruments Item Reference Guide

#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	(Obsolete in newer Instruments)												
4	CorVol @ High Temp CorVol accumulated during High Temperature Alarms conditions. (Obsolete in newer Instruments)	0			.		.	.					
5	Ch-A Pulses Waiting Number of volume pulses for Channel A pending transmission. Normally zero.	0		.	.	.	.	.			.
6	Ch-B Pulses Waiting Number of volume pulses for Channel B pending transmission. Normally zero.	0		.	.	.	.	.			.
7	Ch-C Pulses Waiting Number of volume pulses for Channel C pending transmission. Normally zero.	0		.	.		.	.			.
8	P1 Gas Pressure Most recently measured pressure of P1 transducer Used in calculating the pressure correction factor (Item 044). The pressure scaled to the unit of measure per Item 087.	0		.	.	.	.	.	.		.
9	P1 Gas Pressure Max Maximum P1 pressure since last reset.	0			.		.	.					
10	P1 Press High Alarm Limit	99999.99		.	.	.	.	.

Mercury Instruments Item Reference Guide

#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	P1 Pressure High Alarm set point.												
11	P1 Press Low Alarm Limit P1 Pressure Low Alarm set point	-1.0		.	.	.	.	.
12	Calibration Atmospheric Pressure Atmospheric pressure optionally entered by the instrument technician during the most recent calibration of an absolute pressure transducer.	0.0		.	.	.	.	.
13	Base Pressure Base pressure (per the contract) used in calculating Pressure Factor (Item 044).	14.73		.	.	.	.	.			.
14	Atmospheric Pressure Atmospheric pressure per the contract to convert gauge pressure readings (for gauge type transducers) to absolute pressure used in calculating Pressure Factor (Item 044).	14.73		.	.	.	.	.			.
15	Pressure Used at P1-Cal Zero The pressure value used during the most recent P1 Pressure Zero calibration.	0.0		.	.	.	.	.
16	Pressure Used at P1-Cal Span The pressure value used during the most recent P1 Pressure Span calibration.	0.0						

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
17	Calibration P1-Zero The offset (zero point) for the P1 Pressure transducer during the most recent P1 Pressure Zero calibration.	0.0		.	.	.	.	.
18	Calibration Prev-1 P1-Zero Previous value of Item 017	0.0		.	.	.	.	.
19	Calibration Prev-2 P1-Zero Previous value of Item 018	0.0		.	.	.	.	.
20	Calibration P1-Span The span (gain factor) for the P1 Pressure transducer during the most recent P1 Pressure Span calibration.	1.0		.	.	.	.	.
21	Calibration Prev-1 P1-Span Previous value of Item 020	1.0		.	.	.	.	.
22	Calibration Prev-2 P1-Span Previous value of Item 021	1.0		.	.	.	.	.
23	Min Pressure Calibration Point Diff % The configurable minimum spread required between Pressure Cal Zero (017) and Pressure Cal Span (020) calibration points.	50.0		.	.	.	.	.
24	Excess Pressure Calibration Change % The configurable maximum allowable change to Pressure Cal Zero (017) during Pressure Zero calibration and to Pressure Cal	2.0						

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Span (020) during Pressure Span calibration.												
25	P1 Transducer Range (PSI) Range specified in PSI units only	100.0		.	.	.	.	.
26	Gas Temperature Most recently measured temperature of Temperature probe. Used in calculating the temperature correction factor (Item 045). Unit of measure per Item 089.	0.0		.	.	.	.	.			.
27	Gas Temp Low Alarm Limit Temp Low Alarm set point	-35.0		.	.	.	.	.			.
28	Gas Temp High Alarm Limit Temp High Alarm set point	145.0		.	.	.	.	.			.
29	Temperature Used at T-Cal Zero Temperature applied at T- Zero	0.0		.	.	.	.	.			.
30	Temperature Used at T-Cal Span Temperature applied at T-Span	1.0		.	.	.	.	.			.
31	Case Temperature Current Temperature inside enclosure	0.0		.	.	.	.	.			.
32	Case Temp Maximum Max Temperature inside enclosure since last reset.	-40.0			
33	Case Temp Minimum	170.0			

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Min Temperature inside enclosure since last reset.												
34	Base Temperature Configurable – used for generating Temperature Factor	60.0		•	•	•	•	•			•		
35	Calibration T-Zero The offset (zero point) for the Temperature probe during the most recent Temperature Zero calibration	0.0		•	•	•	•	•			•		
36	Prev-1 Calibration T-Zero Previous value of Item 035.	0.0		•	•	•	•	•			•		
37	Prev-2 Calibration T-Zero Previous value of Item 036.	0.0		•	•	•	•	•					
38	Calibration T-Span The span (gain factor) for the Temperature probe during the most recent Temperature Span calibration.	0.0	1	•	•	•	•	•			•		
39	Prev-1 Calibration T-Span Previous value of T-Span	0.0		•	•	•	•	•			•		
40	Prev-2 Calibration T-Span Second most previous value of T-Span	0.0		•	•	•	•	•					
41	Min Temperature Calibration Point Diff % The configurable minimum spread required between Temperature Cal Zero (035) and Temperature Cal Span (038)	10.0		•	•	•	•	•			•		

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	calibration points												
42	<p>Excess Temperature Calibration Change % The configurable maximum allowable change to Temperature Cal Zero (035) during Temperature Zero calibration and to and Temperature Cal Span (038) during Temperature Span calibration.</p>	2.0		•	•	•	•	•			•		
43	<p>Total Correction Factor Equal to: [Item 044 x Item 045 x Item 046 x Item 116]. Total Factor updates when Pressure and Temperature are measured. EC350 and TCI measure every 30 seconds while all other Instruments measure at time of volume input.</p>	1.0		•	•	•	•	•			•		
44	<p>Pressure Correction Factor (Correctors) Factor updates when Pressure is measured. EC350 and TCI measure every 30 seconds while all other Instruments measure at time of volume input. For Legacy Correctors – configure Item 044 when using Fixed Factor Pressure mode (see Item 109). <i>Note for TCI – Item 044 is a configuration parameter using Item 008 or 044 – never a measured value.</i></p>	1.0		•	•	•	•	•			•		

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Ch-1 Fixed Factor Value (Pulse Accumulator) User configurable parameter to apply scaling factor to Channel-1 Pulses (Fixed Factor Volume).	1.0								.			
45	Temp Correction Factor Factor updates when Temperature is measured. EC350 and TCI measure every 30 seconds while all other Instruments measure at time of volume input. For Legacy Correctors – configure Item 045 when using Fixed Factor Temperature mode (see Item 111).	1.0		.	.	.	.	.			.
46	Aux Correction Factor User configurable parameter to allow for any additional correction factoring not covered by P, T or S factors. Typically not used.	1.0		.	.	.	.	.			.
47	Unsquarred Supercompressability Factor Fpv value computed from P and T measurements.	1.0		.	.	.	.	.
48	Battery Voltage Reading (update rate dependent per Instrument)			.	.	.	.	.	.	.	.
49	Battery Low Voltage Limit Battery voltage low Alarm limit set point.	2.95									.		
		4.3				.				.			
		4.6		.									
		5.5			.								

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
		5.8												
		6.75	w/External supply		.									
		7.5					.	.	.					
50	Shutdown Voltage Limit Limit at which Instrument may enter dormant mode of operations to help preserve data and Battery. Note: TCI Shutdown is in units of months (Lithium usage cycles). Some Instruments show "HELP" on LCD.	6 months	(units of months)								.			
		4.0	Volts	.		.				.				
		4.8	Volts						
		5.3	Volts											
51	Memory Battery Voltage Measured value of backup Battery of Mini-AT main board.	4.5	Volts		.		.	.						
52	Mem Battery Low Volt Limit Memory Battery Low Alarm set point	3.6			.		.	.						
53	Specific Gravity for Supercompressability Range: 0.5540 to 1.0000	0.60		.	.	.	.	.	
54	% N2 for Supercompressability Range: 0 to15%	0.0		.	.	.	.	.	
55	% CO2 for Supercompressability Range: 0 to15%	0.0		.	.	.	.	.	
56	Pulse Channel A Output Scaling Factor used to weight the value of Channel-A Volume output	2.0		.	.	.	.	.			.

Mercury Instruments Item Reference Guide

#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	pulses (typically used in AMR applications). For EC 350 this Item is RO – see Item 1193 for options												
57	Pulse Channel B Output Scaling Factor used to weight the value of Channel-B Volume output pulses (typically used in AMR applications). For EC 350 this Item is RO – see Item 1194 for options	2.0		.	.	.	.	.			.
58	Pulse Channel C Output Scaling Factor used to weight the value of Channel-C Volume output pulses (typically used in AMR applications). For EC 350 this Item is RO – see Item 1195 for options	2.0		.	.		.	.			.
59	Battery Usage Cycles Generally used for tracking Lithium battery life (usage amount)	0		.	.		.	.			.
60	Battery Cycles Limit Usage Cycles High Alarm set point. Set item 060 to a value of zero to disable the Wake Cycle Alarm. Especially for AccuTest Corrector and Turbo Corrector	40,000,000	Lithium pack		.								
		15,000,000	Alkaline pack		.								
		0	External Supplied		.		.	.					
	Battery Remain Low Limit (EC 350) Per a 60 month overall life usage – Alkaline pack	8	Months	.									
Battery Remain Low Limit (TCI) Per a 240 month overall life usage – Lithium battery pack only	24	Months								.			

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
61	Display Test 8.8.8.8.8.8.8 – fixed text	8.8.8.8.8.8.8			.	.	.	.	
62	Unit Serial Number Programmed at the factory to match the serial number label.	00000000		.	.	.	.	.		.	.
63	Gas Pressure Minimum Min value measured since last reset	0.0			.		.	.					
64	Gas Temperature Max Max value measured since last reset	99999.99			.		.	.					
65	Gas Temperature Min Min value measured since last reset	0.0			.		.	.					
66	Pulser-A Output Limit High Alarm set point for volume pulses waiting to be transmitted at items 005, 006 or 007.	99999999			.		.	.					
67	Pulser-B Output Limit High Alarm set point for volume pulses waiting to be transmitted at items 005, 006 or 007.	99999999			.		.	.					
68	Pulser-C Output Limit High Alarm set point for volume pulses waiting to be transmitted at items 005, 006 or 007.	99999999			.		.	.					
69	Pulser-A Limit Alarm	0	No / Yes		.		.	.					

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Indicates when a pulse channel alarm limit has been exceeded.												
70	Pulser-B Limit Alarm Indicates when a pulse channel alarm limit has been exceeded.	0	No / Yes		•		•	•					
71	Pulser-C Limit Alarm Indicates when a pulse channel alarm limit has been exceeded.	0	No / Yes		•		•	•					
72	Alarm 1 Item #1	0			•		•	•					
73	Alarm 2 Item #	0			•		•	•					
74	Alarm 3 Item #	0			•		•	•					
75	Scroll List 2 Item 1 (Legacy Correctors)	048	Battery Volts		•	•	•	•	•				
	Scroll List Item 1 (TCI)	002	UncVol								•		
	Scroll List Item 7 (EC 350)	045	Temp Factor	•									
76	Scroll List 2 Item 2 (Legacy Correctors)	255	<i>Not Assigned</i>		•	•	•	•	•				
	Scroll List Item 2 (TCI)	000	CorVol								•		
	Scroll List Item 8 (EC 350)	043	Total Factor	•									
77	Scroll List 2 Item 3 (Legacy Correctors)	255	<i>Not Assigned</i>		•	•	•	•	•				
	Scroll List Item 3 (TCI)	432	Meter Model								•		
	Scroll List Item 9 (EC 350)	113	High Res CorVol	•									
78	Scroll List 2 Item 4 (Legacy Correctors)	255	<i>Not Assigned</i>		•	•	•	•	•				
	Scroll List Item 4 (TCI)	1001	Battery Remain								•		
	Scroll List Item 10 (EC 350)	892	High Res UncVol										

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
79	Scroll List 2 Item 5 (Legacy Correctors)	255	<i>Not Assigned</i>		•	•	•	•	•				
	Scroll List Item 5 (TCI)	122	Firmware Ver.								•		
	Scroll List Item 11 (EC 350)	114	Meter Scaling	•									
80	Scroll List 2 Item 6 (Legacy Correctors)	255	<i>Not Assigned</i>		•	•	•	•	•				
	Scroll List Item 6 (TCI)	255	<i>Not Assigned</i>								•		
	Scroll List Item 12 (EC 350)	122	Firmware Ver.	•									
81	Scroll List 2 Item 7 (Legacy Correctors)	255	<i>Not Assigned</i>		•	•	•	•	•				
	Scroll List Item 7 (TCI)	255	<i>Not Assigned</i>								•		
	Scroll List Item 13 (EC 350)	255	<i>Not Assigned</i>	•									
82	Scroll List 2 Item 8 (Legacy Correctors)	255	<i>Not Assigned</i>		•	•	•	•	•				
	Scroll List Item 8 (TCI)	255	<i>Not Assigned</i>								•		
	Scroll List Item 14 (EC 350)	255	<i>Not Assigned</i>	•									
83	Scroll List 2 Item 9 (Legacy Correctors)	255	<i>Not Assigned</i>		•	•	•	•	•				
	Scroll List Item 9 (TCI)	255	<i>Not Assigned</i>								•		
	Scroll List Item 15 (EC 350)	255	<i>Not Assigned</i>	•									
84	Scroll List 2 Item 10 (Legacy Correctors)	255	<i>Not Assigned</i>		•	•	•	•	•				
	Scroll List Item 10 (TCI)	255	<i>Not Assigned</i>								•		
	Scroll List Item 16 (EC 350)	255	<i>Not Assigned</i>	•									
85	Scroll List 2 Item 11 (Legacy Correctors)	255	<i>Not Assigned</i>		•	•	•	•	•				

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
86	Scroll List Item 11 (TCI)	255	Not Assigned								.			
	Scroll List Item 17 (EC 350)	255	Not Assigned	.										
	Scroll List 2 Item 12 (Legacy Correctors)	255	Not Assigned		.	.	.	.	.
	Scroll List Item 12 (TCI)	255	Not Assigned								.			
87	P1 Pressure Units Units-of-measure for P1 Pressure and all related Pressure Items related directly to pressure correction. This Item does not apply for units of P2 or P3. Notice: EC 350 specific units options are denoted by '()' TCI does not support code 1.	0	PSI	.	.	.	.	.	.		.
		1	PSI (kPa)					
		2	kPa (mPa)		
		3	mPa (Bar)		
		4	Bar (mBar)		
		5	mBar (KGcm2)		
		6	KGcm2 (in WC)		
		7	in WC (in HG)		
		8	in HG (mm HG)		
88	No of Dec for P1 Pressure P1 Pressure - Number of digits to the right of the decimal point.	9	mm HG				
		0	XXXXXXXX						
		1	XXXXXX.X						
		2	XXXXX.XX						
		3	XXXX.XXX						

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		4	XXX.XXXX	•	•	•	•	•					
89	Temperature Units Units-of-measure for temperature related items	0	Fahrenheit	•	•	•	•	•			•		
		1	Celsius	•	•	•	•	•			•		
		2	Rankine	•	•	•	•	•			•		
		3	Kelvin	•	•	•	•	•			•		
90	Corrected Volume Units (Correctors) or Ch-1 Fixed Factor Vol Units (Pulse Accumulator) Units-of-measure for corrected volume items in volume correctors or Fixed-Factor volume items in Pulse Accumulators (See item 457 for PA Ch-2 units). Notice: EC 350 units options are denoted by '()' Default units for EC 350 (5) and TCI is CCF (7). Default units for all legacy correctors is MCF (8).	0	CF	•	•	•	•	•		•			
		1	CFx10	•	•	•	•	•		•			
		2	CFx100	•	•	•	•	•		•			
		3	CF (CFx1000)	•	•	•	•	•		•	•		
		4	CFx10 (CFx10K)	•	•	•	•	•		•	•		
		5	CFx100 (CCF)	•	•	•	•	•		•	•		
		6	CFx1000 (MCF)	•	•	•	•	•		•	•		
		7	CCF (m3x0.1)	•	•	•	•	•		•	•		
		8	MCF (m3)	•	•	•	•	•		•	•		
		9	m3x0.1 (m3x10)	•	•	•	•	•		•	•		
		10	m3 (m3x100)	•	•	•	•	•		•	•		
		11	m3x10 (m3x1K)	•	•	•	•	•		•	•		
		12	m3x100		•	•	•	•		•	•		
13	m3x1000		•	•	•	•		•	•				

Mercury Instruments Item Reference Guide

#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
		14	CFx10,000		•	•	•	•		•	•			
		15	Therms		•	•	•	•		•	•			
		16	DecaTherms		•	•	•	•		•	•			
		17	MegaJoules		•	•	•	•		•	•			
		18	GigaJoules		•	•	•	•		•	•			
		19	KiloCals		•	•	•	•		•	•			
		20	KiloWattHrs		•	•	•	•		•	•			
91	Pressure CorVol Units Units-of-measure for pressure corrected volume items. Note: This item are not available in all volume correctors. Generally deemed obsolete. Default units for all legacy correctors is MCF (8).	0	CF		•		•	•						
		1	CFx10		•		•	•						
		2	CFx100		•		•	•						
		3	CF		•		•	•						
		4	CFx10		•		•	•						
		5	CFx100		•		•	•						
		6	CFx1000		•		•	•						
		7	CCF		•		•	•						
		8	MCF		•		•	•						
		9	m3x0.1		•		•	•						
		10	m3		•		•	•						
11	m3x10		•		•	•								

Mercury Instruments Item Reference Guide

#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
		12	m3x100		•		•	•						
		13	m3x1000		•		•	•						
		14	CFx10,000		•		•	•						
		15	Therms		•		•	•						
		16	DecaTherms		•		•	•						
		17	MegaJoules		•		•	•						
		18	GigaJoules		•		•	•						
		19	KiloCals		•		•	•						
		20	KiloWattHrs		•		•	•						
92	Uncorrected Volume Units (Correctors) or Ch-1 Accumulated Vol Units (Pulse Accumulator) Units-of-measure for corrected volume items in volume correctors or Accumulated volume items in Pulse Accumulators (See item 458 for PA Ch-2 units).	0	CF	•	•	•	•	•	•	•				
		1	CFx10	•	•	•	•	•	•	•				
		2	CFx100	•	•	•	•	•	•	•				
		3	CF (CFx1000)	•	•	•	•	•	•	•	•			
		4	CFx10 (CFx10K)	•	•	•	•	•	•	•	•			
		5	CFx100 (CCF)	•	•	•	•	•	•	•	•			
		6	CFx1000 (MCF)	•	•	•	•	•	•	•	•	•		
		7	CCF (m3x0.1)	•	•	•	•	•	•	•	•	•		
		8	MCF (m3)	•	•	•	•	•	•	•	•	•		
		9	m3x0.1 (m3x10)	•	•	•	•	•	•	•	•	•		

Mercury Instruments Item Reference Guide

#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
	Notice: EC 350 units options are denoted by '()' Default units for EC 350 (5) and TCI is CCF (7). Default units for all legacy correctors is MCF (8).	10	m3 (m3x100)	•	•	•	•	•	•	•	•			
		11	m3x10 (m3x1K)	•	•	•	•	•	•	•	•			
		12	m3x100		•	•	•	•	•	•	•			
		13	m3x1000		•	•	•	•	•	•	•			
		14	CFx10,000		•	•	•	•	•	•	•			
		15	Therms		•	•	•	•		•				
		16	DecaTherms		•	•	•	•		•				
		17	MegaJoules		•	•	•	•		•				
		18	GigaJoules		•	•	•	•		•				
		19	KiloCals		•	•	•	•		•				
93	Ch-A Output Selection Selects the type of information to be transmitted out on pulse output channel A.	20	KiloWattHrs		•	•	•	•		•				
		0	Cor Vol Pulses	•	•	•	•	•			•			
		1	PCor Vol		•		•	•						
		2	Unc Vol Pulses	•	•	•	•	•				•		
		3	Off (Disabled)	•	•	•	•	•				•		
94	Ch-B Output Selection Selects the type of information to be transmitted out on pulse	4	Time (Top of the hour)		•	•	•	•						
		0	Cor Vol Pulses	•	•	•	•	•			•			
		1	PCor Vol		•		•	•						

Mercury Instruments Item Reference Guide

#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
	output channel B.	2	Unc Vol Pulses	•	•	•	•	•			•			
		3	Off (Disabled)	•	•	•	•	•			•			
		4	Time (Top of the hour)		•	•	•	•						
95	Ch-C Output Selection Selects the type of information to be transmitted out on pulse output channel C. Note EC 350 adds option code 5 for using Ch-C for Modem Power Control feature (non-Mercury modems).	0	Cor Vol Pulses	•	•		•	•			•			
		1	PCor Vol		•		•	•						
		2	Unc Vol Pulses	•	•		•	•				•		
		3	Off (Disabled)	•	•		•	•				•		
		4 (Legacy)	Time (Top of the hour)		•		•	•						
		4 (EC350)	Alarm	•										
		5	Modem Power Control	•										
96	Corr Vol No of Digits (Legacy Correctors + TCI) Number of Volume digits displayed on LCD for CorVol value (Item 000).	0	8 Digits		•	•	•	•		•	•			
		1	7 Digits		•	•	•	•		•	•			
		2	6 Digits		•	•	•	•		•	•			
		3	5 Digits		•	•	•	•		•	•			
		4	4 Digits		•	•	•	•		•	•			
	Corr Vol No of Digits (EC 350)		8	8 Digits	•									
			7	7 Digits	•									

Mercury Instruments Item Reference Guide

#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
	Number of Volume digits displayed on LCD for CorVol value (Item 000).	6	6 Digits	•										
		5	5 Digits	•										
		4	4 Digits	•										
97	Uncorr Vol No of Digits (Legacy Correctors + TCI) Number of Volume digits displayed on LCD for UncVol value (Item 002).	0	8 Digits		•	•	•	•	•	•	•			
		1	7 Digits		•	•	•	•	•	•	•			
		2	6 Digits		•	•	•	•	•	•	•	•		
		3	5 Digits		•	•	•	•	•	•	•	•		
	4	4 Digits		•	•	•	•	•	•	•	•			
	Uncorr Vol No of Digits (EC 350) Number of Volume digits displayed on LCD for UncVol value (Item 002).	8	8 Digits	•										
		7	7 Digits	•										
		6	6 Digits	•										
5		5 Digits	•											
98	Meter Index Rate (Legacy Correctors + TCI) or Ch-1 Input Pulse Value (Pulse Accumulator) Selection to indicate the amount of uncorrected volume for	4	4 Digits	•										
		0	1 CF		•	•	•	•	•	•	•	•		
		1	5 CF		•	•	•	•	•	•	•			
		2	10 CF		•	•	•	•	•	•	•			
		3	100 CF		•	•	•	•	•	•	•			
4	1000 CF		•	•	•	•	•	•	•					

Mercury Instruments Item Reference Guide

#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
<p>each rotation of the output shaft from the gas meter (Correctors)</p> <p>or</p> <p>Value of pulse from a Pulse Transmitter (pulse may represent corrected or uncorrected volume) – (Pulse Accumulator)</p> <p>Note: TCI does not use Item 098 as it is strictly a Rotary Corrector – so code is '0' indicating 1 CF.</p>	5	0.1 m3		•	•	•	•	•	•					
	6	1 m3		•	•	•	•	•	•					
	7	10 m3		•	•	•	•	•	•					
	8	100 m3		•	•	•	•	•	•					
	9	1000 m3		•	•	•	•	•	•					
	10	10000 CF		•	•	•	•	•	•					
	11	0 CF				•				•				
	12	50 CF				•								
	13	500 CF				•								
	14	Rotary Mount				•								
	<p>Meter Index Rate (EC 350)</p> <p>Selection to indicate the amount of uncorrected volume for each rotation of the output shaft from the gas meter.</p>	0	ROTARY	•										
		1	1 CF	•										
		2	2 CF	•										
		3	5 CF	•										
4		10 CF	•											
5		50 CF	•											
6		100 CF	•											
7	500 CF	•												

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		8	1000 CF	•									
		9	10000 CF	•									
		10	0.1 m3	•									
		11	1 m3	•									
		12	10 m3	•									
		13	100 m3	•									
		14	1000 m3	•									
99	<p>Battery Low Volt Alarm Indicates the Battery(s) has reached or exceeded the limit set by item 049 (Battery Low Limit).</p> <p>EC 350 – Battery measurement occurs at 10-minute intervals. Requires <u>three</u> consecutive low readings for Alarm to set. Also Alarm does not set if External Supply voltage is being used.</p>	0 / 1	No / Yes	•	•	•	•	•	•	•			
100	<p>Battery Usage Cycles Alarm For Lithium Batteries life tracking based on 'usage' counts.</p> <p>Legacy Correctors: Alarm is set when Item 059 (Battery Usage Cycles) exceeds configurable value of Item 060 (Battery Cycles Limit).</p>	0 / 1	No / Yes	•	•		•	•			•		

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	EC 350 + TCI: Alarm is set when Item 1001 (Battery Months Remaining) drops below configurable value of Item 060 (Battery Remain Low Limit)												
101	Memory Battery Low Indicates the Backup Battery voltage (Item 051) is measuring below the limit set by Item 052 (Backup Battery Low Limit).	0 / 1	No / Yes		.		.	.					
102	Volume Sensor - 1 Alarm This item indicates a faulty Volume Sensor 1. Alarm remains active until manually cleared.	0 / 1	No / Yes	.	.	.	.	.			.
103	Volume Sensor - 2 Alarm This item indicates a faulty Volume Sensor 2. Alarm remains active until manually cleared.	0 / 1	No / Yes	.	.	.	.	.			.
104	Misc. Alarm (Mini-AT series) Not used	0 / 1	No / Yes			.						.	
	System Alarm Indicates a hardware fault on the CPU circuit board or components. Note: Alarm codes vary between Instruments.	0 / 1 0	No / Yes Yes (meanings vary between Instruments)		

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
105	Pressure Out Of Range Alarm Alarm is set if either Item 143 or 145 is set (active).	0 / 1	No / Yes		•		•	•					
106	Temperature Out Of Range Alarm Alarm is set if either Item 144 or 146 is set (active)	0 / 1	No / Yes		•		•	•					
107	Tamper Detected Alarm EC 350: Alarm is set when door tamper switch is tripped (door being opened. User will need to clear this Alarm manually. Mini-Max: Alarm is set due to detection of Volume Sensors 1 and 2 being stuck closed per configuration of Item 403 (Switch Tamper Alarm Limit). Volume Tampering feature. User will need to clear this Alarm manually. See Item 403.	0 / 1	No / Yes	•		•							
108	Alarm Output (Master Alarm Status) Indicate if the unit has any active Alarms. '0' indicates no active Alarms and '1' indicates one or more active Alarms. Note: Item 108 cannot be cleared directly. Alarm dots or Bell Icon displayed on LCD when Item 108 is set (active).	0 / 1	No / Yes	•	•	•	•	•		•	•		

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
109	Fixed Pressure Factor (Legacy Correctors) Selects Live or Fixed Factor for Pressure. Live value comes from measurement of Item 008 (P1 Gas Pressure). For Fixed Factor, User sets the Pressure Factor from value of Item 044.	0	Live (measured)		•	•	•	•			•			
		1	Fixed Factor (not measured)		•	•	•	•						
	Fixed Pressure Factor (EC 350) Selects Live or Fixed Factor for Pressure Factor. Live value comes from measurement of Item 008 (P1 Gas Pressure). For Fixed Factor, the Pressure Factor is set from value of Item 1161 (Fixed Pressure Value). Do not directly set value of Item 008 or 044 when using Fixed Factor mode – use Item 1161.	0	Fixed Factor (not measured))	•										
		1	Live (measured)	•										
	Fixed Pressure Factor (TCI) Used to select one of three options for Fixed Factor Pressure Factor. Default is to allow User to manually enter values for Gas Pressure, Base Pressure and Atmospheric Pressure. Additional options are to directly set Item 044 or to force Item 044 to value of 1.00 (option code '2' is very similar to code '0')	0	P-Factor set using Item 044									•		
		1	P-Factor set using Items 008, 113, and 114									•		

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		2	P-Factor fixed at value 1.00								.		
110	Fixed Super Factor Enable or disable a fixed Supercompressability. If enabled, set 047	0	Live		.	.	.	.	
		1	Fixed		.	.	.	.	
111	Fixed Temp Factor (Legacy Correctors) Selects Live or Fixed Factor for Temperature. Live value comes from measurement of Item 026 (Gas Temperature). For Fixed Factor, User sets the Temperature Factor from value of Item 045. Also in Fixed Factor mode (code 1) enter a value at Item 026 (Gas Temperature) if Supercompressability is "Live." In Fixed Factor mode "Super" (code 2), Gas Temperature is measured only for the Supercompressability calculation. 'Super' mode is for sites with TC type meters. Note TCI does NOT support code 2 (Super) mode.	0	Live						
		1	Fixed						
		2	Super						

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Temperature Factor Mode (EC 350) Selects Live or Fixed Factor for Temperature Factor. Live value comes from measurement of Item 026 (Gas Temperature). For Fixed Factor, the Temperature Factor is set from value of Item 1162 (Fixed Temperature Value). Do not directly set value of Item 026 or 045 when using Fixed Factor mode – use Item 1162.	0	Fixed	•									
		1	Live	•							•		
111	Temperature Factor Mode (TCI) Selects Live or Fixed Factor for Temperature Factor. Live value comes from measurement of Item 026 (Gas Temperature). For Fixed Factor, the Temperature Factor is set from value of Item 1162 (Fixed Temperature Value). Do not directly set value of Item 026 or 045 when using Fixed Factor mode – use Item 1162.	0	Live								•		
		1	Fixed								•		
112	P1 Transducer Type Type of transducer installed. Affects how Pressure factor is calculated. EC 350 – this Item is automatically set from data pulled from the PnPPT devices connected to the EC 350.	0	Gauge	•	•	•	•	•	•				
		1	Absolute	•	•	•	•	•	•				
		2	None	•									

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
113	High Resolution CorVol Display of the fractional portion (to the fourth decimal) of item 000 (Totalized Corrected Volume) with the last three CorVol integers for reference.	0.0		•	•	•	•	•			•		
114	Meter Scaling (Correctors) or Ch-1 Pulse Scaling (Pulse Accumulator) This scaling value describes the volume per meter pulse input. For all Correctors: Item 114 is set automatically by selecting a Rotary Meter Model using item 432.	1.000		•	•	•	•	•		•	•		
115	Pulse Output Timing Pulse times are in seconds . (Form-A) Applies to both Ch-A and Ch-B Note: Mini-Max and TCI are Form-A only.	0	0.0625		•	•	•	•	•				
		1	0.500		•	•	•	•	•				
		2	1.000		•	•	•	•	•				
		3	0.125		•	•	•	•	•				
		4	0.250		•	•	•	•	•				
116	Squared Super compress Squared value of Item 047 – used to compute Item 043.	1.000		•	•	•	•	•					
118	Reference Number 1 Optional storage of integer value.	0		•	•	•	•	•		•	•	•	

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
119	Reference Number 2 Optional storage of integer value.	0		•	•	•	•	•		•	•	•	
120	Calibration Date P1 Pressure Calibrations dates are auto-inserted after Zero calibration	01 01 01		•	•	•	•	•					
121	Cal Date Temperature Calibrations dates are auto-inserted after Zero calibration	01 01 01		•	•	•	•	•			•		
122	Firmware Version Inserted during f/w upgrade	-	Varies between products	•	•	•	•	•		•	•		
124	Revolutions Per Wakeup (Legacy Correctors) Option to help increase Battery life by limiting the "correction cycles" to be applied only every "N" number of meter revolutions. Example: N = 10 means do full P/T/Z correction on every 10 th volume pulse input. Generally leave value as '1'.	1	1 - 15		•	•	•	•					
125	Pulser Power Factor (Mini-AT series Correctors) Configurable integer to change the Battery usage weighting for Pulse Outputs.	66			•		•	•					
126	Instrument Baud Rate Baud rate for the instrument's serial port. This baud rate must match the baud rate of the connected device in order to establish a serial link.	0	9600			•				•			
		1	4800		•	•	•	•		•			
		2	2400		•	•	•	•		•			
		3	1200		•	•	•	•		•			

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
	Notice: EC 350 see Item 272 .	4	600		•		•	•						
		5	300		•		•	•						
		6	19200		•	•	•	•			•			
		7	38400		•	•	•	•			•			
		8	AutoBaud				•				•			
127	Instrument Type Code Read-Only numeric code assign to each type of instrument as an identifier (mainly used by Host Software).	3	Mini-AT		•									
		4	Mini-Max			•								
		3	Mini-AT					•						
		3	Mini-AT					•						
		6	Turbo Monitor							•				
		8	Pulse Accumulator								•			
		12	TC Index									•		
		10	ERX										•	
		5	PT Board											•
128	Clr Alarms w/ Pushbutton Enable the ability to clear instrument alarms using a “mag-wand” or pushbutton (if available). Note: Alarm clearing requires additional User action.	0	No		•	•	•	•	•		•			
		1	Yes		•	•	•	•	•		•			

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
129	<p>Live Display Enable (Legacy Correctors + TCI) Live parameters readings displayed on the LCD during the Meter Reader List, which follows display of the last Mag List 1 item.</p> <p>Notice: EC 350: P and T are Live readings when displayed in HMI Level-1 menu screens. P and T are snapshot values when displayed in HMI Level-0 list screens. EC 350 has a dedicated HMI menu screen for showing Live Dial Rate values and supplying Uncorrected or T-Corrected 'Proving' output pulses via Infrared (IrDA port).</p>	0	None		•	•	•	•			•			
		1	Live P		•	•	•	•						
		2	Live T		•	•	•	•				•		
		3	Live P & T	(Mini-AT, Mini-Max)		•	•	•	•					
		4			Live PLog		•		•	•				
		5	Live P & PLog		•		•	•						
		6	Live T & PLog		•		•	•						
		7	Live P T & PLog		•		•	•						
		8	Rotary Dial Rate				•					•		
		9	P & Rotary Dial Rate				•							
		10	Live T & Rotary Dial Rate	(TCI)				•					•	
11	P T & Rotary Dial Rate						•							
130	Scroll List 2 Item 1 (Legacy Correctors)	61	Display Test		•	•	•	•	•					
	Scroll List Item 1 (EC 350)	002	UncVol	•										
131	Scroll List 2 Item 2 (Legacy Correctors)	002	UncVol		•	•	•	•	•					

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
	Scroll List Item 2 (EC 350)	000	CorVol	•										
132	Scroll List 2 Item 3 (Legacy Correctors)	000	CorVol		•	•	•	•	•					
	Scroll List Item 3 (EC 350)	008	P1 Pressure	•										
133	Scroll List 2 Item 4 (Legacy Correctors)	255	Not Assigned		•	•	•	•	•					
	Scroll List Item 4 (EC 350)	026	Gas Temperature	•										
134	Scroll List 2 Item 5 (Legacy Correctors)	255	Not Assigned		•	•	•	•	•					
	Scroll List Item 5 (EC 350)	1001	Battery Remain	•										
135	Scroll List 2 Item 6 (Legacy Correctors)	255	Not Assigned		•	•	•	•	•					
	Scroll List Item 6 (EC 350)	044	Pressure Factor	•										
136	Item Number Enable (Legacy Correctors) Selection that determines if the item code number is to be displayed prior to its value (for the purpose of item identification) while scrolling items on the LCD, i.e. Scroll List mode.	0	None		•		•	•						
		1	List 1		•		•	•						
		2	List 2		•		•	•						
		3	List 1&2		•		•	•						
		4	Live		•		•	•						
		5	List 1 Live		•		•	•						
		6	List 2 Live		•		•	•						
7	List 1 List 2 Live		•		•	•								
137	P1 Pressure Range User	100.0		•	•		•	•						

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
	Pressure range of transducer scaled to Pressure units per Item 087.					.								
138	P1 Transducer S/N Programmed at the factory to match P1 transducer S/N	00000000		.	.	.	.	.	
139	Serial Link Access (Legacy Correctors) Select the write access serial data communications link to provide various means of item write access security. Notes: Metrological Read-Only (not possible to write to metrological items). Metrological Protection (Metrological Items can be changed as long as Event Log is not full so changes are logged). Metrological Sealed (Metrological Items cannot be changed).	0	Full Read/Write (unrestricted)		.	.	.	.		
		1	Full Read-Only		.	.	.	.		
		2	Serial Access Disabled		.	.	.	.		
		3	Metrological Protected		.	.	.	.		
		4	Metrological Sealed			.								
	Metrological Access (EC 350 + TCI) Metrological Read-Only (not possible to write to metrological items). Metrological Protection (Metrological Items can be changed as long as Event Log is not full so changes are logged). Metrological Sealed (Metrological Items cannot be	0	Full Read/Write (unrestricted)	.								.		
		1	Full Read-Only	.								.		
		2	Metrological Protected	.										
		3	Metrological	.							.			

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	changed). Note: TCI does not have Event Log (no code option 2 or 4)		Sealed										
		4	Metrological Event Locked	.									
140	Energy Totalized gas energy, equivalent to the totalized corrected volume multiplied by the Gas Energy Value (Item 142).	0		.	.	.	.	.			.
141	Energy Units Unit-of-measure for Energy	0	Therms	.	.	.	.	.			.
		1	DecaTherms	.	.	.	.	.			.
		2	MegaJoules	.	.	.	.	.			.
		3	GigaJoules	.	.	.	.	.			.
		4	KiloCals	.	.	.	.	.			.
		5	KiloWattHours	.	.	.	.	.			.
142	Gas Energy Value User provided value of Energy per unit of CorVol. 1000 BTU / CF per Item 141 Units.	1000.0	BTU/cu.ft. KJouLES/m3 KILOCAL/m3 WHR/m3	.	.	.	.	.			.
143	P1 Press Low Alarm Alarm is set when value of Item 008 drops below configurable limit per Item 011. Manually clear unless in RBX mode.	0 / 1	No / Yes	.	.	.	.	.

Mercury Instruments Item Reference Guide

#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
144	Temperature Low Alarm Alarm is set when value of Item 026 drops below configurable limit per Item 027. Manually clear unless in RBX mode.	0 / 1	No / Yes	•	•	•	•	•			•		
145	P1 Press High Alarm Alarm is set when value of Item 008 exceeds configurable limit per Item 010. Manually clear unless in RBX mode.	0 / 1	No / Yes	•	•	•	•	•					
146	Temperature High Alarm Alarm is set when value of Item 026 exceeds configurable limit per Item 028. Manually clear unless in RBX mode	0/ 1	No / Yes	•	•	•	•	•			•		
147	Supercompress Method (Legacy Correctors)	0	NX-19		•	•	•	•					
		1	AGA8 Gross or Detail Sent		•	•	•	•					
		2	AGA8 Gross Relative Density Sent		•	•	•	•					
		3	AGA8 Gross Heating Value Sent		•	•	•	•					
		4	AGA8 Detail factors Sent		•	•	•	•					

Mercury Instruments Item Reference Guide

#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
	Supercompress Method (EC 350)	0	Fixed	•										
		1	NX-19	•										
		2	AGA8 Gross 1 (Heating Value)	•										
		3	AGA8 Gross 2 (Relative Density)	•										
		4	AGA8 Detail Method	•										
148	Incremental Energy Energy during the Log or Statistical interval EC 350 has Item 1178 to set Statistical interval instead of using AT Logging interval.	0		•	•	•	•	•						
149	Event Logger Lock Selection to prevent memory-wrap until events are downloaded. Once changed to "1" (Locked), it cannot be changed back to "0" (Unlocked).	0	Unlocked		•		•	•						
		1	Locked		•		•	•						
150	P3 Coefficient 27	0.0	Factory Set									•		
151	P3 Coefficient 28	0.0	Factory Set											

Mercury Instruments Item Reference Guide

#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
												.	
152	P3 Coefficient 29	0.0										.	
153	P3 Coefficient 30	0.0										.	
154	P3 Coefficient 31	0.0										.	
155	P3 Coefficient 32	0.0										.	
156	P3 Int High Time Time of High P3	00 00 00										.	
157	P3 Int High Date Date for item 156 (in ERX)	01 01 01										.	
158	P3 Int Low Time Time of Low P3	00 00 00										.	
159	P3 Int Low Date Date for item 158 (in ERX)	01 01 01										.	
163	Flow Rate High Alarm High Flow Alarm indicator	0 / 1	No / Yes		
164	Flow Rate High Limit	99999.99			

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#	Item Name and Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
165	RBX Alarm Enable Enable RBX to auto-clear alarms when conditions return to normal.	0	No (Standard Alarm)	•	•		•	•	•				
		1	Yes (enable RBX alarm)	•	•	•	•	•	•				
166	RBX Dead Band P1 Pressure Pressure Dead Band in PSI	5.0		•	•	•	•	•					
167	RBX Dead Band Temperature Temperature Dead Band in degrees F	10.0		•	•	•	•	•					

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
169	RBX Dead Band Flow Rate Units in CorVol units (Item 090) per Hour.	-	(see Item 090)	•	•	•	•	•						
170	Protocol Code A Enable to transmit the Error Code 21 "Timeout error message".	0	Send Errors	•	•	•	•	•	•	•				
		1	No Errors	•	•	•	•	•	•	•				
		2	Multi-drop Primary		•		•	•						
		3	Multi-drop Secondary		•		•	•						
171	Wait for ENQ Timeout Wait for ENQ before sending timeout error 21 Note: Does not apply when using IrDA	25	1 – 60 seconds	•	•	•	•	•	•	•	•			
172	Wait for SN Timeout Wait for Sign-on before sending timeout err 21	25	1 – 60 seconds	•	•	•	•	•	•	•	•			
173	Reset Log Trigger Enable for creating an Audit Trail record at time of a CPU reset.	1 / 0	Enabled / Disabled		•	•	•	•				•		
174	Clear Alarm Log Trigger Enable for creating an Audit Trail record at time of an RBX Alarm Clearing.	0	Inactive		•	•	•							
		1	Active		•	•	•							
		0	No alarm records					•						

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Note: TurboCorrector has codes 0 – 8 available options.	1	All alarm types					•					
		2	All except Pulsing Gas Alarms					•					
		3	All except Normal Alarms					•					
		4	All except Pulsing Gas & Normal Alarms					•					
		5	All except Abnormal Alarms					•					
		6	All except Pulsing Gas & Abnormal Alarms					•					
		7	All except Normal & Abnormal Alarms					•					
		8	All except Pulsing Gas & Normal & Abnormal Alarms					•					
175	Shutdown Log Trigger Enable for creating an Audit Trail record at time of a 'Shutdown' event.	1 / 0	Enabled / Disabled		•		•	•					
176	RBX Event Status of RBX activity Either manually reset this item back to zero	0	No (no RBX activity since last interrogation)	•	•	•	•	•					
		1	Yes (RBX activity since last	•	•	•	•	•					

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	after it is queried, or have the host computer handle it if on automated calls		interrogation										
177	Pulse Out Repetitions Wait time [in hours] before re-sending an alarm pulse, until acknowledged. 0=Disabled	24			•		•	•					
178	P1 Coefficient A Items 178-181 MUST remain at the factory assigned values for proper P1 pressure measurement	0.0				•						•	
179	P1 Coefficient B	1.0				•						•	
180	P1 Coefficient C	0.0				•						•	
181	P1 Coefficient D	1.0				•						•	
182	Input Vol to Corrector Selects the type of uncorrected volume the Turbo Corrector uses as its input for computing Corrected Volume.	0	Normal (SW1 & 2)		•		•	•					
		1	TIB Adj Vol (SW3)		•		•	•					
		2	TIB UnAdj Vol (SW4)		•		•	•					
183	Previous Day Corvol – Previous Day Statistic	0		•	•	•	•	•			•		

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
184	Previous Day Uncvol	0		.	.	.	.	.			.
185	Previous Day Avg P1 Press	0.0		.	.	.	.	.
186	Previous Day Avg Temp	0.0		.	.	.	.	.			.
187	Avg Unsquared Super	0.0		.	.	.	.	.
188	Daily Avg Unsquared Super	0.0		.	.	.	.	.
189	Prev Day Avg Unsquared Super	0.0		.	.	.	.	.
190	Daily Energy	0.0		.	.	.	.	.
191	Previous Day Energy	0.0		.	.	.	.	.
192	Daily Peak Flow Rate	0.0	(See Item 090)	.	.	.	.	.
193	Daily Peak Flow Time Ending Hour for Item 192	00 00 00		.	.	.	.	.
194	Prev Day Pk Flow Rate Previous Day Statistic	0.0	(See Item 090)	.	.	.	.	.
195	Prev Day Pk Flow Time Ending Hour for Item 194	00 00 00		.	.	.	.	.
196	Obsolete Event Log User ID User ID number that logged in Event records	00		.	.	.	.	.
197	Max Dial Rate	0.0			.		.	.					

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
198	Max Flow Rate	0.0			•		•	•					
200	Site ID Number (1) Configurable ID number - used by software as the main search criteria.	00000000		•	•	•	•	•	•	•	•		
201	Site ID Number (2) Configurable ID number - used by software as the main search criteria.	00000000		•	•	•	•	•	•	•	•		
202	Log Interval / AT Group-1 Interval Time period that determines how often TIME records are placed in audit trail memory & when interval stats are calculated. Note: TCI only Logs at daily rate (not configurable).	1	1 Minute	•	•	•	•	•					
		5	5 Minutes	•	•	•	•	•					
		10	10 Minutes	•	•	•	•	•					
		15	15 Minutes	•	•	•	•	•					
		30	30 Minutes	•	•	•	•	•					
		60	60 Minutes	•	•	•	•	•		•			
		24	Daily	•	•	•	•	•		•			
	31	Monthly	•										
203	Time Real-time 24-hour clock (HH:MM:SS)	00 00 00		•	•	•	•	•		•	•		
204	Date 6-digit Calendar Date. Format selected	01-01-01		•	•	•	•	•		•	•		

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	using Item 262. EC 350 displays 4-digit Year												
205	Gas Day Start Time Configurable Time for Start of the Gas Day (Correctors).	09 00 00		•	•	•	•	•		•	•		
206	Interval Average Pressure 1	0.0		•	•	•	•	•					
207	Interval Average Gas Temp	0.0		•	•	•	•	•					
208	Average Flow Rate (Cor Vol)	0.0		•	•		•	•					
209	Flow Rate (Cor Vol) Flow rate for last meter revolution, [CorVol/Hr]	0.0		•	•	•	•	•			•		
210	Peak Flow Rate (Cor Vol) Largest value of Item 209 during the interval	0.0		•	•	•	•	•					
211	Peak Hour Cor Vol Largest 1-hour of CorVol during the Gas Day	0.0		•	•	•	•	•					
212	Peak Hour Time Ending hour for Item 211	00 00 00		•	•	•	•	•					

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
213	Peak Hour Date Date for Item 211	01 01 01		.	.	.	.	.
214	P1 Interval High Pressure	0.0		.	.	.	.	.
215	P1 Interval Low Pressure	99999.99		.	.	.	.	.
216	Interval High Gas Temp	0.0		.	.	.	.	.			.
217	Interval Low Gas Temp	99999.99		.	.	.	.	.			.
218	Inst Dial Rate (Unc Vol) Dial rate for last meter revolution, [CF/Hr]	0		.	.	.	.	.			.
219	Peak Dial Rate (Unc Vol) Largest value of Item 218 for the interval	0		.	.	.	.	.
220	Nominated Cor Vol Daily CorVol nomination and if exceeded by item 223, a VOLUME record is inserted into Audit Trail log	99999999			.		.	.					
221	Daily Cor Vol Alarm Limt CorVol High Alarm set point	99999999		.	.	.	.	.			.
222	Daily Cor Vol Alarm Sets if Item 223 exceeds Item 221	0 / 1	No / Yes		
223	Daily Cor Vol	00000000			

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
224	Daily Unc Vol	00000000		.	.	.	.	.			.
225	Incremental Cor Vol (Correctors) or Ch-1 Inc FixedFactor Vol (Pulse Accum)	0		.	.	.	.	.
										.			
226	Incremental Unc Vol (Correctors) or Ch-1 Inc Accumulated Vol (Pulse Accum)	0		.	.	.	.	.		.
229	Audit Trail (Group1) Item 5 Configuration parameter for Audit Trail Log 1 – Record Item # 5. "255" indicates unused.	48		.	.	.	.	.
		255				.				.			
		0	Fixed – not configurable								.		
230	Audit Trail (Group1) Item 6 Configuration parameter for Audit Trail Log 1 – Record Item # 6. "255" indicates unused.	0		.	.	.	.	.
		255				.				.			
		2	Fixed – not configurable								.		
231	Audit Trail (Group1) Item 7 Configuration parameter for Audit Trail Log 1 – Record Item # 7. "255" indicates unused.	2						
		255				.				.			
		43	Fixed – not configurable								.		
232	Audit Trail (Group1) Item 8	8						

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Configuration parameter for Audit Trail Log 1 – Record Item # 8. "255" indicates unused.	255				•				•			
		257	Fixed – not configurable								•		
	Audit Trail (Group1) Item 9	26		•	•		•	•					
233	Configuration parameter for Audit Trail Log 1 – Record Item # 9. "255" indicates unused.	255				•				•			
		1001	Fixed – not configurable								•		
	Audit Trail (Group1) Item 10	31		•									
234	Configuration parameter for Audit Trail Log 1 – Record Item # 10. "255" indicates unused.	59			•		•	•					
		255				•				•			
235	Time Log Trigger If "Active", a time-stamped record is placed into audit trail memory for each occurrence of that particular activity.	1	Enabled / Disabled		•		•	•					
236	Volume Log Trigger	1	Enabled / Disabled		•		•	•					
		0	Inactive		•		•						
237	Alarm Log Trigger	0	No alarm records					•					
		1	Active		•	•	•						
		1	All alarm types					•					

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		2	All except Pulsing Gas Alarms					.					
		3	All except Normal Alarms					.					
		4	All except Pulsing Gas & Normal Alarms					.					
		5	All except Abnormal Alarms					.					
		6	All except Pulsing Gas & Abnormal Alarms					.					
		7	All except Normal & Abnormal Alarms					.					
		8	All except Pulsing Gas & Normal & Abnormal Alarms					.					
		238	Serial Log Trigger	0	Inactive								
0	No serial records				.	.	.	.	
1	Active												
1	Serial records both ports				.		.	.					
2	Serial records local port only				.		.	.					
3	Serial records modem port only				.		.	.					

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
239	Log Trigger: Display List	0	Inactive		•	•	•	•					
		1	Active		•	•	•	•					
242	Change Log Trigger	0	Inactive		•	•	•	•					
		1	Active		•	•	•	•					
243	Month Peak Hour Cor Vol Largest hourly CorVol of the current Gas month	00000000		•	•	•	•	•					
244	Month Peak Hour Date Date for Item 243	01 01 01		•	•	•	•	•					
245	Month Peak Hour Time Ending hour for Item 243	00 00 00		•	•	•	•	•					
246	Month Peak Day Cor Vol Largest daily CorVol of the current 'Gas' month	00000000		•	•	•	•	•					
247	Month Peak Day Date Date for Item 246	01 01 01		•	•	•	•	•					
248	Prev Mo Pk Hour Cor Vol Largest hourly CorVol of the previous 'Gas' month	00000000		•	•	•	•	•					

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
249	Prev Mo Pk Hour Date Date for Item 248	01 01 01		.	.	.	.	.
250	Prev Mo Pk Hour Time Ending hour for Item 248	00 00 00		.	.	.	.	.
251	Prev Mo Pk Day Cor Vol Largest daily CorVol of the previous 'Gas' month	00000000		.	.	.	.	.
252	Prev Mo Pk Day Date Date for Item 251	01 01 01		.	.	.	.	.
253	Max Day Cor Vol Largest daily CorVol since last reset	00000000		.	.	.	.	.			.
254	Max Day Date Date for Item 253	01 01 01		.	.	.	.	.			.
255	Reserved "255" used to indicate an unused slot for Display List & Audit Trail columns		Indicates unused	.	.	.	.	.		.	.	.	.
256	Daily Average Pressure	0.0		.	.	.	.	.
257	Daily Average Temperature	0.0		.	.	.	.	.			.
258	Audit Trail Item 1 (Log-1)	225		.	.	.	.	.

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	User selectable Audit Trail item #1 – Log 1	0								•			
		0	Not configurable								•		
259	Audit Trail Item 2 (Log-1)	225		•	•	•	•	•					
	User selectable Audit Trail item #2 – Log 1	226								•			
		2	Not configurable								•		
260	Audit Trail Item 3 (Log-1)	206		•	•	•	•	•					
	User selectable Audit Trail item #3 – Log 1	910								•			
		43	Not configurable								•		
261	Audit Trail Item 4 (Log-1)	207		•	•	•	•	•					
	User selectable Audit Trail item #4 – Log 1	911								•			
		1001	Not configurable								•		
262	Date Format	0	MM-DD-YY	•	•	•	•	•		•	•		
	Format of the Date at item 204 and all other date related Items.	1	DD-MM-YY	•	•	•	•	•		•	•		
		2	YY-MM-DD	•	•	•	•	•		•	•		
263	AT Time Log Time-Stamp	0	End-Of-Interval		•	•	•	•					
	Format of timestamping audit trail records.	1	Start-Of-Interval		•	•	•	•					
264	Misc. Action Code Special diagnostic usage. Not normally accessed by field personnel.	0	Various unique codes	•	•	•							

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
265	Memory Address (EC350) Special function items not normally accessed by field personnel.	0		•	•	•	•	•		•	•	•	
266	Memory Data(EC350) (Honeywell Diagnostic usage)	0		•	•	•	•	•		•	•	•	
267	Misc Config Special diagnostic usage. Not normally accessed by field personnel.	0		•	•	•	•	•		•	•	•	
268	Jumper Settings Read-only, bit-coded value for reading jumpers are installed at Jumper Block JB-24.	0			•		•	•					
269	Energy Forward	0				•							
270	Energy Reverse	0				•							
271	Energy Net	0				•							
272	Modem/Serial Baud Rate	0	9600	•	•		•	•					
	Baud rate for the instrument's Modem port, i.e., TB2. Note: This baud rate must match the baud rate of the connected modem in order to establish a serial link	1	4800	•	•		•	•					
		2	2400	•	•		•	•					
		3	1200	•	•		•	•					
		4	19200	•	•		•	•					

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		5	38400	.	.		.	.
		6	57600	.	.		.	.
		7	115200	.	.		.	.
273	Maximum Flow Rate Highest value for Item 209	0.0		.	.	.	.	.
274	Maximum Flow Rate Time Time for Item 273	00 00 00		.	.	.	.	.
275	Maximum Flow Rate Date Date for Item 273	01 01 01		.	.	.	.	.
276	Maximum Flow Rate Press Pressure for Item 273	0.0		.	.	.	.	.
277	Maximum Hour Cor Vol Highest value for Item 211	00000000		.	.	.	.	.
278	Maximum Hour End Time End hour for Item 277	00 00 00		.	.	.	.	.
279	Maximum Hour Date Date for Item 277	01 01 01						
280	Max Hour Cor Vol Press Pressure for Item 277	0.0						

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
281	Maximum Dial Rate (Unc Vol) Highest value for Item 218	0		.	.	.	.	.			.
282	Maximum Dial Rate Time Time for Item 281	00 00 00		.	.	.	.	.			.
283	Maximum Dial Rate Date Date for Item 281	01 01 01		.	.	.	.	.			.
284	Maximum Dial Rate Press Pressure for Item 281	0.0		.	.	.	.	.
285	P1 Maximum Pressure Highest value for Item 008	0.0		.	.	.	.	.
286	P1 Maximum Press Time Time for Item 285	00 00 00		.	.	.	.	.
287	P1 Maximum Press Date Date for Item 285	01 01 01		.	.	.	.	.
288	Max Press Flow Rate Flow Rate for Item 285	0.0		.	.	.	.	.
289	P1 Minimum Pressure Lowest value for Item 008	0.0						
290	P1 Min Pressure Time	00 00 00						

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Time for Item 289												
291	P1 Min Pressure Date Date for Item 289	01 01 01		.	.	.	.	.
292	Min Press Flow Rate Flow Rate for Item 289	0.0		.	.	.	.	.
293	Maximum Gas Temp Highest value for Item 026	0.0		.	.	.	.	.			.
294	Maximum Gas Temp Time Time for Item 293	00 00 00		.	.	.	.	.			.
295	Maximum Gas Temp Date Date for Item 293	01 01 01		.	.	.	.	.			.
296	Max Gas Temp Flow Rate Flow Rate for Item 293	0.0		.	.	.	.	.			.
297	Minimum Gas Temp Lowest value for Item 026	0.0		.	.	.	.	.			.
298	Minimum Gas Temp Time Time for Item 297	00 00 00			
299	Minimum Gas Temp Date Date for Item 297	01 01 01			

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
300	Min Gas Temp Flow Rate Flow Rate for Item 297	0.0		•	•	•	•	•			•		
301	P1 Coefficient 1 Item codes 301 - 332 are the 32 PCor Pressure (P1) Transducer compensation coefficients for Legacy Instruments (ones without newer 'PnPPT'). These values determine the pressure response over the entire operating temperature range and are unique for each pressure transducer (regardless of the pressure range). The coefficient values are factory set and should NOT be modified! Caution: Pressure will <u>not</u> measure accurately if incorrect coefficients are used!	0.0 (30.0)			•	•	•	•				•	
302 - 332	P1 Coefficient 2 – 32 See Item 301 for description	0.0 (30.0)			•	•	•	•				•	
333	Call-In Trigger Type Determines which instrument activity will cause a modem to call-in. See Item 486 to	0	No Call-In	•	•	•	•	•		•		•	
		1	Alarm Call-In Only	•	•	•	•	•		•		•	
		2	Scheduled Call-In Only	•	•	•	•	•		•		•	

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	specify the method used when making the modem call. EC 350 -> default is No Call-In All others -> default is Alarm Call Only	3	Alarm and Scheduled Call-In Only	•	•	•	•	•		•		•	
334	Scheduled Call-In Date Date of next Call-in. Intended to be reset by host software after each call	01 01 01		•	•	•	•	•		•		•	
335	Scheduled Call-In Time Time of next Call-in. May be reset by host software after each call or re-used for next Call-in	00 00 00		•	•	•	•	•		•		•	
336	Call-In Retry By The 'equipment' that is expected to perform the call retry for failed Calls . Host: The Host system handles Call retries. Instrument: The MI Instrument handles Call retries. EC 350 -> default is: Instrument mode	0	Host	•	•	•				•		•	
		1	Alarm: Host Scheduled: Instrument	•	•	•				•		•	
		2	Alarm: Instrument Scheduled: Host	•	•	•				•		•	
		3	Instrument	•	•	•				•		•	
337	Last Modem Call-In Result	0	Call Unsuccessful	•		•						•	
		1	Call successful	•		•						•	

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
		2	No Call Attempted	•		•						•		
338	Sched Call Unprocessed Status of Scheduled Call-in activity. Code: 1111111 Call-in activity since last interrogation (item should be manually cleared after each interrogation). Code 0 indicates no activity.	0	No (indicates no activity since last interrogation)	•	•	•	•	•		•		•		
		1	Yes (indicates Call-in activity since last interrogation)	•	•	•	•	•		•		•		
339	Sched Call-In Phone Number 1 Phone number 1 to be called for a Scheduled Call-in. See Item 493.	-		•	•	•	•	•		•		•		
340	Digi-Span Mode Enables special 'gas/oil' IO control using pulse output operation.	0	No Digi-Span			•						•		
		1	Gas Override			•						•		
		2	Oil Override			•							•	
		3	Automatic			•							•	
341	P2 Coefficient 1 Item codes 341 - 372 are the 32 PLog Pressure (P2) Transducer compensation coefficients for Legacy Instruments (ones without newer 'PnPPT'). These values	0.0 (30.0)			•		•	•				•		

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	determine the pressure response over the entire operating temperature range and are unique for each pressure transducer (regardless of the pressure range). The coefficient values are factory set and should NOT be modified! Caution: Pressure will <u>not</u> measure accurately if incorrect coefficients are used!												
342 - 372	PLog / P2 Coefficient 2 – 32 See Item 341	0.0			•		•	•				•	
373	% Methane These 19 items are for reference only and display the values assigned to each of the individual gas composition parameters used in the <u>AGA8 Detailed</u> method of Super calculations. Specific Gravity, % Nitrogen and % Carbon Dioxide are also part of this group but are displayed at items 53 - 55.	0.0		•	•		•	•					
374	% Ethane	0.0		•	•		•	•					
375	% Propane	0.0		•	•		•	•					

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
376	% I-Butane	0.0		.	.		.	.
377	% N-Butane	0.0		.	.		.	.
378	% I-Pentane	0.0		.	.		.	.
379	% N-Pentane	0.0		.	.		.	.
380	% Hexane	0.0		.	.		.	.
381	% Heptane	0.0		.	.		.	.
382	% Octane	0.0		.	.		.	.
383	% Nonane	0.0		.	.		.	.
384	% Hydrogen Sulfide	0.0		.	.		.	.
385	% Hydrogen	0.0		.	.		.	.
386	% Helium	0.0		.	.		.	.
387	% Oxygen	0.0		.	.		.	.
388	% Carbon Monoxide	0.0		.	.		.	.
389	% Argon	0.0		.	.		.	.
390	% Decane	0.0		.	.		.	.
391	% Water	0.0		.	.		.	.
392	Aux Pressure Offset Seldom used factory set item for Transducer.	0.0				.							

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
393	Cal Delta-A Min Items associated with AAT Linearization	0.0						.	.				
394	Cal Delta-A Max	0.0						.	.				
395	Meter Factor Unadj Min Items associated with AAT Linearization	0.0						.	.				
396	Meter Factor Unadj Max	0.0						.	.				
397	Meter Factor Adj Min Items associated with AAT Linearization	0.0						.	.				
398	Meter Factor Adj Max	0.0						.	.				
399	Flow Rate Low Limit Low Flow Alarm set point.	0.0	0		.		.	.					
400	Instrument Configuration Enable control for second pressure (PLog).	5	PLog Off		.		.	.					
		37	PLog On		.		.	.					
401	Sample Interval Update rate for various 'timed' based processing (listed here): Plog measurements, Zero-Flow detection, Call-In, Call-Out, and Digital Input 1-3	0	60 Seconds		.		.	.					
		1	30 Seconds		.		.	.					
		2	15 Seconds		.		.	.					
		3	10 Seconds		.		.	.					
		4	5 Seconds		.		.	.					

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	detection.												
402	Loader FW Version Boot Loader's Version number	1.2001	<i>fixed</i>								.		
403	Switch Tamper Alarm Limit	0	Disabled			.							
404	Previous Hour CorVol Previous value of item 225. for Mini-AT, Mini-Max, Accutest, Turbo Corrector, this is available on Firmware revisions higher than 6.9119.	0		.	.	.							
405	Site-ID Delay Time Delay sending Site ID string after modems connect on instrument call-in	4/5		.	.	.						.
406	AAT Low Flow Cut-Off Hz Main rotor only 3Hz.	3	Hz					.	.				
407	PLog / P2 Transducer Type Type of Plog / P2 transducer installed	0	Gauge	.	.		.	.
		1	Absolute	.	.		.	.
		2	None	.									
408	PLog / P2 Pressure Units Units-of-measure for P2 Pressure and all	0	PSI	.	.		.	.				.
		1	PSI (kPa )	.	.		.	.				.

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board		
	related Pressure Items related directly to pressure correction. This Item does not apply for units of P1 or P3. Notice: EC 350 specific units options are denoted by '()'.	2	kPa (mPa)	•	•		•	•				•			
		3	mPa (Bar)	•	•		•	•					•		
		4	Bar (mBar)	•	•		•	•					•		
		5	mBar (KGcm2)	•	•		•	•					•		
		6	KGcm2 (in WC)	•	•		•	•					•		
		7	in WC (in HG)	•	•		•	•					•		
		8	in HG (mm HG)	•	•		•	•					•		
		9	mm HG	•	•		•	•					•		
		10	Oz				•		•	•				•	
		11	Volts				•		•	•				•	
		12	mVolts				•		•	•				•	
		409	PLog / P2 Press Display Res Number of digits to the right of the decimal point for PLog / P2 pressure readings.	0	XXXXXXXX	•	•		•	•					
1	XXXXXX . X			•	•		•	•							
2	XXXXX . XX			•	•		•	•							
3	XXXX . XXX			•	•		•	•							
4	XXX . XXXX			•	•		•	•							
410	Calibration Date P2 Press	01 01 01		•	•		•	•							

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	P3 Calibration Date (ERX)	01 01 01										.	
411	P2 Transducer S/N	00000000		.	.		.	.
	P3 Transducer S/N (ERX)	00000000										.	
412	P2 Press Range (PSI)	0.0		.	.		.	.
	P3 Press Range (PSI) (ERX)	0.0										.	
413	Pressure used at P2-Zero	0.0		.	.		.	.
	P3 Cal Zero Pressure (ERX)	0.0										.	
414	Calibration P2-Zero	0.0		.	.		.	.
	P3 Calibration Zero (ERX)	0.0										.	
415	Cal Previous-1 P2-Zero	0.0		.	.		.	.
	Prev-1 P3 Calib Zero	0.0										.	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
416	Pressure used at P2-Span	1.0		.	.		.	.
	P3 Cal Span Pressure	0.0										.	
417	Calibration P2-Span	1.0		.	.		.	.
	P3 Pressure Calibration Span	1.0										.	
418	Cal Previous-1 P2-Span	1.0		.	.		.	.
	P3 Calibration Span	1.0										.	
419	P2 Press Range User	100.0		.	.		.	.
	P3 User Press Range	100.0										.	
420	P2 Gas Pressure	0.0		.	.		.	.
	P3 Gas Pressure	0.0										.	
421	P2 Interval Avg Press	0.0		.	.		.	.
	P3 Int Avg Pressure	0.0										.	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
422	P2 Interval High Press	0.0		.	.		.	.
	P3 Int High Pressure	0.0										.	
423	P2 Interval Low Press	0.0		.	.		.	.
	P3 Int Low Pressure	0.0										.	
424	P2 Daily Average Press	0.0		.	.		.	.
	P3 Daily Average Press	0.0										.	
425	P2 Prev Daily Avg Press	0.0		.	.		.	.
	P3 Prev Day Avg Press	0.0										.	
426	P2 Max Pressure Highest value for Item 420	0.0		.	.		.	.
	P3 Max Pressure	0.0										.	
427	P2 Max Pressure Time Time for Item 426	00 00 00		.	.		.	.
	P2 Max Pressure Time	01 01 01										.	
428	P2 Max Pressure Date Date for Item 426	00 00 00						

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	P3 Max Pressure Date	01 01 01										.	
429	P2 Min Pressure	99999.99		.	.		.	.
	P3 Min Pressure	99999.99										.	
430	P2 Min Pressure Time Time for Item 429	00 00 00		.	.		.	.
	P3 Min Pressure Time	00 00 00										.	
431	P2 Min Pressure Date Date for Item 429	01 01 01		.	.		.	.
	P3 Min Pressure Date	01 01 01										.	
432	Rotary Integral Mount (Mini-Max + TCI) Model of rotary meter to which the Mini-Max Rotary Corrector or TCI is mounted. Changing the selection at this item will automatically insert the proper values at items 98 and 114 for the selected meter. (EC 350 has different codes – see below).	0	Not Applicable			.					.		
	1	Imperial Roots 1.5M				.					.		
	45	Imperial Roots LMMA 2M				.					.		
	2	Imperial Roots LMMA 3M				.					.		
	3	Imperial Roots LMMA 5M				.					.		
	4	Imperial Roots LMMA 7M				.					.		
	5	Imperial Roots LMMA 11M				.					.		
6	Imperial Roots LMMA 16M				.					.			

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		7	Imperial Roots LMMA 23M			•					•		
		8	Imperial Roots LMMA 38M			•					•		
		9	Imperial Roots LMMA 56M			•					•		
		10	Imperial Roots LMMA 102M			•					•		
		48	Imperial Romet RM600 (older)										
		49	Imperial Romet RM600 (newer)										
		11	Imperial Romet RM1000 (older)			•					•		
		33	Imperial Romet RM1000 (newer)			•					•		
		12	Imperial Romet RM1500			•					•		
		13	Imperial Romet RM2000 (older)			•					•		
		50	Imperial Romet RM2000 (newer)			•					•		
		14	Imperial Romet RM3000			•					•		
		15	Imperial Romet RM5000			•					•		

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		16	Imperial Romet RM7000			•					•		
		17	Imperial Romet RM11000			•					•		
		18	Imperial Romet RM16000 (24-inch body)			•					•		
		34	Imperial Romet RM16000 (20 inch body)			•					•		
		35	Imperial Romet RM23000			•					•		
		51	Imperial Romet RM25000			•					•		
		36	Imperial Romet RM38000			•					•		
		52	Imperial Romet RM56000			•					•		
		19	Imperial Roots B3 8C 175			•					•		
		20	Imperial Roots B3 11C 175			•					•		
		21	Imperial Roots B3 15 C 175/300			•					•		
		31	Imperial Roots B3 1M 175/300			•					•		
		22	Imperial Roots B3 2M 175			•					•		
		23	Imperial Roots B3 3M 175/300			•					•		

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		24	Imperial Roots B3 5M 175			•					•		
		25	Imperial Roots B3 7M 175			•					•		
		51	Imperial Roots B3 8.8M 175			•					•		
		26	Imperial Roots B3 11M 175			•					•		
		27	Imperial Roots B3 16M 175			•					•		
		28	Imperial Roots B3 23M 175			•					•		
		32	Imperial Roots B3 23M 232			•					•		
		29	Imperial Roots B3 38M 175			•					•		
		30	Imperial Roots B3 56M 175			•					•		
		37	Imperial AMCO RPM 9.0C			•					•		
		38	Imperial AMCO RPM 1.5M			•					•		
		39	Imperial AMCO RPM 3.5M			•					•		
		40	Imperial AMCO RPM 5.5M			•					•		
		41	Imperial AMCO RPM 7.0M			•					•		
		42	Imperial AMCO RPM 11.0M			•					•		
		43	Imperial AMCO RPM 16.0M			•					•		
		44	<i>not available</i>										
		54	Metric Roots 1.5M			•					•		
		55	Metric Roots LMMA 2M			•					•		

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		56	Metric Roots LMMA 3M			•					•		
		57	Metric Roots LMMA 5M			•					•		
		58	Metric Roots LMMA 7M			•					•		
		59	Metric Roots LMMA 11M			•					•		
		60	Metric Roots LMMA 16M			•					•		
		61	Metric Roots LMMA 23M			•					•		
		62	Metric Roots LMMA 38M			•					•		
		63	Metric Roots LMMA 56M			•					•		
		64	Metric Roots LMMA 102M			•					•		
		65	Metric Romet RM16			•					•		
		66	Metric Romet RM30			•					•		
		67	Metric Romet RM40			•					•		
		68	Metric Romet RM55 (older)			•					•		
		95	Metric Romet RM55 (newer)			•					•		68
		69	Metric Romet RM85			•					•		
		70	Metric Romet RM140			•					•		
		71	Metric Romet RM200 (older)			•					•		
		96	Metric Romet RM200 (newer)			•					•		

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		72	Metric Romet RM300			•					•		
		73	Metric Romet RM450 (older)			•					•		
		74	Metric Romet RM450 (newer)			•					•		
		75	Metric Romet RM650 (older)			•					•		
		76	Metric Romet RM650 (newer)			•					•		
		77	Metric Romet RM700			•					•		
		78	Metric Romet RM1100			•					•		
		79	Metric Romet RM1600			•					•		
		97	Metric Romet G10			•					•		
		98	Metric Romet G16			•					•		
		99	Metric Romet G25			•					•		
		100	Metric Romet G40			•					•		
		101	Metric Romet G65			•					•		
		102	Metric Romet G100			•					•		
		103	Metric Romet G160			•					•		
		104	Metric Romet G250			•					•		
		105	Metric Romet G400			•					•		

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
		106	Metric Romet G450-150			•					•			
		107	Metric Romet G650			•					•			
		108	Metric Romet G100			•					•			
		47	Custom Meter Selection			•					•			
		0	Other	•										
	Meter Model (EC 350) Model of rotary meter to which the EC 350 Corrector is mounted. Changing the selection at this item will automatically insert the proper values at items 98 and 114 for the selected meter.	20	Dresser I-D B3 8C175/200	•										
		21	Dresser I-D B3 11C175/200	•										
		22	Dresser I-D B3 15C175/200	•										
		23	Dresser I-D B3 1M300	•										
		24	Dresser I-D B3 2M175/200	•										
		25	Dresser I-D B3 3M175/300	•										
		26	Dresser I-D B3 5M175	•										
		27	Dresser I-D B3 7M175	•										
		28	Dresser I-D B3 11M175	•										
		29	Dresser I-D B3 16M175	•										
		30	Dresser I-D B3 23M175	•										
		31	Dresser I-D B3 38M175	•										
		32	Dresser I-D B3 56M175	•										
		40	Dresser I-D LMMA 1.5M	•										

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		41	Dresser I-D LMMA 2M	•									
		42	Dresser I-D LMMA 3M	•									
		43	Dresser I-D LMMA 5M	•									
		44	Dresser I-D LMMA 7M	•									
		45	Dresser I-D LMMA 11M	•									
		46	Dresser I-D LMMA 16M	•									
		47	Dresser I-D LMMA 23M	•									
		48	Dresser I-D LMMA 38M	•									
		49	Dresser I-D LMMA 56M	•									
		50	Dresser I-D LMMA 102M	•									
		60	Dresser ROT B3 8C175/200	•									
		61	Dresser ROT B3 11C175/200	•									
		62	Dresser ROT B3 15C175/200	•									
		63	Dresser ROT B3 1M300	•									
		64	Dresser ROT B3 2M175/200	•									
		65	Dresser ROT B3 3M175/300	•									
		66	Dresser ROT B3 5M175	•									
		67	Dresser ROT B3 7M175	•									
		68	Dresser ROT B3 11M175	•									

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		69	Dresser ROT B3 16M175	•									
		70	Dresser ROT B3 23M175	•									
		71	Dresser ROT B3 23M232	•									
		72	Dresser ROT B3 38M175	•									
		73	Dresser ROT B3 56M175	•									
		80	Dresser ROT LMMA 1.5M	•									
		81	Dresser ROT LMMA 2M	•									
		82	Dresser ROT LMMA 3M	•									
		83	Dresser ROT LMMA 5M	•									
		84	Dresser ROT LMMA 7M	•									
		85	Dresser ROT LMMA 11M	•									
		86	Dresser ROT LMMA 16M	•									
		87	Dresser ROT LMMA 23M	•									
		88	Dresser ROT LMMA 38M	•									
		89	Dresser ROT LMMA 56M	•									
		90	Dresser ROT LMMA 102M	•									
		100	Elster-AMC ROT RPM 9.0C	•									
		101	Elster-AMC ROT RPM 1.5M	•									
		107	Elster-AMC ROT RPM 2M	•									

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		102	Elster-AMC ROT RPM 3.5M	•									
		103	Elster-AMC ROT RPM 5.5M	•									
		104	Elster-AMC ROT RPM 7.0M	•									
		105	Elster-AMC ROT RPM 11.0M	•									
		106	Elster-AMC ROT RPM 16.0M	•									
		110	Elster I-D DIAPHR AL 800	•									
		111	Elster I-D DIAPHR AL 1000	•									
		112	Elster I-D DIAPHR AL 1400	•									
		113	Elster I-D DIAPHR AL 2300	•									
		114	Elster I-D DIAPHR AL 5000	•									
		120	Elster I-D TURBIN 3GT	•									
		121	Elster I-D TURBIN 4GT	•									
		122	Elster I-D TURBIN 6GT	•									
		123	Elster I-D TURBIN 12GT	•									
		250	Elster Pulse RABO 3.5M	•									
		251	Elster Pulse RABO 5.5M	•									
		252	Elster Pulse RABO 9M	•									
		253	Elster Pulse RABO 14M	•									
		153	Romet ROT RM600	•									

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		141	Romet ROT RM1000	•									
		142	Romet ROT RM1500	•									
		154	Romet ROT RM2000	•									
		144	Romet ROT RM3000	•									
		145	Romet ROT RM5000	•									
		146	Romet ROT RM7000	•									
		147	Romet ROT RM11000	•									
		148	Romet ROT RM16000-24	•									
		149	Romet ROT RM16000-20	•									
		150	Romet ROT RM23000	•									
		155	Romet ROT RM25000	•									
		151	Romet ROT RM38000	•									
		156	Romet ROT RM56000	•									
		160	Sensus I-D DIAPHR 750	•									
		161	Sensus I-D DIAPHR 1600	•									
		162	Sensus I-D DIAPHR 3000	•									
		163	Sensus I-D DIAPHR 5000	•									
		164	Sensus I-D DIAPHR 10000	•									
		170	Sensus I-D ROTARY R-3	•									

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		171	Sensus I-D ROTARY R-5	•									
		172	Sensus I-D ROTARY R-8	•									
		173	Sensus I-D ROTARY R-11	•									
		180	Sensus I-D TURBIN 2" TP-4	•									
		181	Sensus I-D TURBIN 2" 5-HP	•									
		182	Sensus I-D TURBIN 3" 10-HP	•									
		183	Sensus I-D TURBIN 4" T-18	•									
		184	Sensus I-D TURBIN 6" T-30	•									
		185	Sensus I-D TURBIN 8" T-60	•									
		186	Sensus I-D TURBIN 12" T-140	•									
		190	Dresser ROT MET B3 8C175/200	•									
		191	Dresser ROT MET B3 11C175/200	•									
		192	Dresser ROT MET B3 15C175/200	•									
		193	Dresser ROT MET B3 1M3 00	•									
		194	Dresser ROT MET B3 2M	•									

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
			175/200										
		195	Dresser ROT MET B3 3M 175/300	.									
		196	Dresser ROT MET B3 5M 175	.									
		197	Dresser ROT MET B3 7M 175	.									
		198	Dresser ROT MET B3 11M 175	.									
		199	Dresser ROT MET B3 16M 175	.									
		200	Dresser ROT MET B3 23M 175	.									
		201	Dresser ROT MET B3 23M 232	.									
		202	Dresser ROT MET B3 38M 175	.									
		203	Dresser ROT MET B3 56M 175	.									
		210	Romet ROT RM16	.									
		211	Romet ROT RM30	.									

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		212	Romet ROT RM40	•									
		214	Romet ROT RM55	•									
		215	Romet ROT RM85	•									
		216	Romet ROT RM140	•									
		218	Romet ROT RM200	•									
		219	Romet ROT RM300	•									
		221	Romet ROT RM450	•									
		223	Romet ROT RM650	•									
		224	Romet ROT RM700	•									
		225	Romet ROT RM1100	•									
		226	Romet ROT RM1600	•									
		230	Romet ROT G10	•									
		231	Romet ROT G16	•									
		232	Romet ROT G25	•									
		233	Romet ROT G40	•									
		234	Romet ROT G65	•									
		235	Romet ROT G100	•									
		236	Romet ROT G160	•									
		237	Romet ROT G250	•									

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
		238	Romet ROT G400	•										
		239	Romet ROT G400-150	•										
		240	Romet ROT G650	•										
		241	Romet ROT G1000	•										
433	Input Volume Mode (Legacy Correctors) Selection to identify the type and operation of uncorrected volume input signal.	0	Instrument Drive / RSI		•	•								
		0	Turbine Interface Board				•	•						
		1	Rotary Type 1 (LMMA / Romet / old B3) Integral Mount			•								
		3	Rotary Type 1 Proving Adapter			•								
		4	Bidirectional Mode (Reverse Flow board)		•	•								
		9	Rotary Type 2 (AMCO / new B3) Integral Mount			•								
		11	Rotary Type 2 Proving Adapter			•								
	Input Volume Mode (TCI) Selection to identify the type and operation	0	ID Drive Input								•			
	1	Normal Rotary Input								•				

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	of uncorrected volume input signal.	3	Hi-Res Proving Mode (high resolution – but uses more Battery)								•		
	Volume Input Mode (EC 350) Selection to identify the type and operation of uncorrected volume input signal. LF = "Low Frequency", "HF = High Frequency". CW = "Clock Wise", CCW = "Counter-Clock Wise".	0	LF-UMB/Instrument Drive	•									
		1	HF-Rotary Low Res	•									
		2	HF-Rotary High Res	•									
		3	LF Bidirectional F=CW	•									
		4	LF Bidirectional F=CCW	•									
434	REI Unc Vol Backup (Mini-Max w/ REI) or Daily Backup Volume (EC 350 w/ CloudLink) Mini-Max: Total Accumulated UncVol from REI sensor (should normally match Item 002). EC 350: If using Cloud Link modem in mode for Pulse counting – Item 434 will	0	(Units per Item 002)	•		•							

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	synch on daily basis with Cloud Link to get pulses and scale them to units of Item 002 (UncVol).												
435	REI Alarm (Mini-Max Rotary) Alarm condition of the REI (Redundant Electronic Index) – If Mini-Max set to Rotary Mode per Item 433/432.	0	No			•							
		1	Battery Low			•							
		2	Read Error			•							
		3	Battery Low & Read Error			•							
		4	Write Error			•							
		5	Battery Low & Write Error			•							
		6	Read Error & Write Error			•							
		7	Battery Low & Read Error & Write Error			•							
		8	Sensor Disconnect			•							
		9	Sensor Disconnect & Battery Low			•							
		10	Sensor Disconnect & Read Error			•							
		11	Sensor Disconnect & Battery Low & Read Error			•							

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		12	Sensor Disconnect & Write Error			•							
		13	Sensor Disconnect & Battery Low & Write Error			•							
		14	Sensor Disconnect & Read Error & Write Error			•							
		15	Sensor Disconnect & Battery Low & Read Error & Write Error			•							
	Daily Backup Vol Alarm (EC 350) Alarm is set when value of Item 002 differs from Item 434 by more than configurable amount of Item 1463. Alarm operations requires a non-zero value for Item 1463 (disabled if Item 1463 = 0)	0 / 1	No / Yes	•									
436	REI Alarm Time The Time when the REI alarm 1st occurred	00 00 00				•							
	Daily Backup Vol Alarm Time	00 00 00		•									

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
437	REI Alarm Date The Date when the REI alarm 1st occurred	01 01 01		•		•							
	Daily Backup Vol Alarm Date	01 01 01		•		•							
438	Reversing Flow Alarm	0 / 1	No / Yes	•		•							
439	Meter Displacement (CF) The volume displacement for meter type selected at item 432 (Always expressed in CF)	1.000		•		•					•		
440	Ch-2 Fixed Factor Value Fixed factor applied to Ch-2 Accumulated Volume	1.0								•			
441	P2 Coefficient A Items 441- 448 MUST remain at the factory assigned values for proper P2 & P3 pressure measurement	0.0 (30.0)										•	
442	P2 Coefficient B	0.0 (30.0)										•	
443	P2 Coefficient C	0.0 (30.0)										•	
444	P2 Coefficient D	0.0 (30.0)										•	

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
445	P3 Coefficient A	0.0 (30.0)										•		
446	P3 Coefficient B	0.0 (30.0)										•		
447	P3 Coefficient C	0.0 (30.0)										•		
448	P3 Coefficient D	0.0 (30.0)										•		
449	Switch Filtering (PulseAccum) Enable or disable a filter on the switch inputs. Enabling the filter prevents very short (unwanted) pulses from being counted.	0	Disabled : Filter Neither Channel							•				
		1	Enabled : Filter Both Channels							•				
		2	Filter Channel 1 Only								•			
		3	Filter Channel 2 Only								•			
		Input Volume Sensor Filter (Mini-Max)	0	Disabled i.e. Elec Pulse			•							
		1	Enabled i.e. Mech Switch			•								
450	Memory Capacity (Read-Only) The amount of memory that's available on the circuit board for audit trail storage	1	41 days of daily			•				•				
		2	34 days of hourly			•				•				
		3	41 days of hourly			•				•				
		4	6 / 12 months of hourly (10 / 4 items)			•				•				
451	P2 Press High Alarm	0 / 1	No / Yes	•	•		•	•						
	P3 Press High Alarm	0 / 1	No / Yes									•		

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
452	P2 Press Low Alarm	0 / 1	No / Yes		•		•	•					
	P3 Press Low Alarm	0 / 1	No / Yes									•	
453	P3 Current Day High Pres Maximum P3 pressure reading recorded during the current day	0.0										•	
454	P3 Current Day Low Pres Minimum P3 pressure reading recorded during the current day	0.0										•	
455	P2 Press High Alarm Limit	0		•	•		•	•					
	P3 Press High Alarm Limit	0										•	
456	P2 Press Low Alarm Limit	99999.99		•	•		•	•					
	P3 Press Low Alarm Limit	99999.99										•	
457	P3 Current Day High Time	00 00 00										•	
	Ch-2 FixedFactor Volume Units Unit-of-measure for Ch-2 fixed factor volume (See item 090 for Ch-1)	0	Cu Ft								•		
		1	Cu Ftx10								•		
		2	CuFtx100								•		
		3	CF								•		
		4	CFx10								•		
5	CFx100								•				

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		6	CFx1000							•			
		7	CCF							•			
		8	MCF							•			
		9	m3x0.1							•			
		10	m3							•			
		11	m3x10							•			
		12	m3x100							•			
		13	m3x1000							•			
		14	CFx10000							•			
		15	Therms							•			
		16	DecaTherms							•			
		17	MegaJoules							•			
		18	GigaJoules							•			
		19	KiloCals							•			
20	KiloWattHrs							•					
458	P3 Curr Day High Date Date when item 453 was recorded	01 01 01										•	
	Ch-2 Accumulated Vol Units Unit-of-measure for Ch-2 accumulated	0	Cu Ft							•			
		1	Cu Ftx10							•			

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
volume (See item 092 for Ch-1)	2		CuFtx100							•			
	3		CF							•			
	4		CFx10							•			
	5		CFx100							•			
	6		CFx1000							•			
	7		CCF							•			
	8		MCF							•			
	9		m3x0.1							•			
	10		m3							•			
	11		m3x10							•			
	12		m3x100							•			
	13		m3x1000							•			
	14		CFx10000							•			
	15		Therms							•			
	16		DecaTherms							•			
	17		MegaJoules							•			
	18		GigaJoules							•			
	19		KiloCals							•			
	20		KiloWattHrs							•			

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
459	RBX Dead Band : P2 Pressure Hysteresis band that's applied when resetting the RBX alarm	5.0	(PSI)	•	•		•	•				•	
460	Flow Detection Scaling Non-zero values enable and scales the time interval between input volume pulses for the zero flow rate detection algorithm to force items 209 and 218 to a value of zero. A value of "0" disables the algorithm	3	0 to 60		•		•	•					
461	Flow Rate Low Alarm Low Flow Alarm indicator	0 / 1	No / Yes		•		•	•					
462	Battery Low Alarm Time	00 00 00		•		•				•	•		
463	Battery Low Alarm Date	01 01 01		•		•				•	•		
464	Vol Sensor-1 Alarm Time	00 00 00		•		•					•		
465	Vol Sensor-1 Alarm Date	01 01 01		•		•					•		
466	Vol Sensor-2 Alarm Time	00 00 00		•		•					•		
467	Vol Sensor-2 Alarm Date	01 01 01		•		•					•		
468	System Alarm Time	00 00 00		•		•					•		

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
469	System Alarm Date	01 01 01		•		•					•		
470	P1 Pressure Low Alarm Time	00 00 00		•		•							
471	P1 Pressure Low Alarm Date	01 01 01		•		•							
472	P1 Press High Alarm Time	00 00 00		•		•							
473	P1 Press High Alarm Date	01 01 01		•		•							
474	Temp Low Alarm Time	00 00 00		•		•					•		
475	Temp Low Alarm Date	01 01 01		•		•					•		
476	Temp High Alarm Time	00 00 00		•		•					•		
477	Temp High Alarm Date	01 01 01		•		•					•		
478	Daily CorVol Alarm Time	00 00 00		•		•					•		
479	Daily CorVol Alarm Date	01 01 01		•		•					•		
480	Flow High Alarm Time	00 00 00		•		•							
481	Audit Trail Max Records (MMX / PA) Records available for audit trail logging	41	HW Revision Dependent			•				•			
	Flow High Alarm Date (EC 350)	01 01 01		•		•							
482	LCD Default Display Item displayed on the LCD when the instrument is in Corrector Mode.	0	CorVol	•	•	•	•	•			•		

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
483	LCD Alarm Message Optional 8-character message displayed on LCD during Alarm condition.	<i>blank</i>				•					•	•	
484	Alarm Channel Control Controls the output function of the Alarm channel	0	Alarm Pulse Output			•				•		•	
		1	Modem Power Control			•				•		•	
485	Call-Out Stop Time Time setting during the day that terminates the Power Control function when enabled at item 484.	23 59 00			•	•	•	•		•			
486	Modem AT Enable Enable Hayes AT-commands for Call-In.	0	No		•	•	•	•		•			
		1	Yes		•	•	•	•		•			
487	Call-In Keep Alive Time Amount of Time in minutes the instrument stays powered up after a call-in (to allow a host unit to call back). '0' indicates disabled (off).	15		•	•	•	•	•		•			
488	Call-Out Repeat Interval	0			•	•	•	•		•			

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Amount of Time in minutes the instrument waits before repeating the call-out window.												
489	Call-Out Keep Alive Time Amount of Time in minutes that power is applied to the external modem, allowing a host call to the instrument	0			•	•	•	•		•			
490	Call-Out Start Time Time of day when power is first applied to the external modem when using modem power control	00 00 00			•	•	•	•		•			
491	Modem Init String Initialization string sent to the instrument modem at beginning of Call-in.	ATE0Q0V0X4		•	•	•	•	•		•			
492	Modem Dial String AT-command sent to the modem to initiate Dialing.	ATDT		•	•	•	•	•		•			
493	Alarm Call-In Phone Number -1 Phone number #1 to call for an Alarm Calls.	blank		•	•	•	•	•		•			
494	Modem Hangup String	ATH0		•	•	•	•	•		•			

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	AT-command sent to the modem to Hang up.												
495	Modem Retry Interval A Primary call-in retry period, in minutes.	5 Minutes		.	.	.	.	.		.
496	Modem Retry Interval B Secondary call-in retry period, in minutes.	1440 (24 Hrs)		.	.	.	.	.		.
497	Modem Retry A Count Number of Primary call-in retries attempted before switching to Secondary retries	3		.	.	.	.	.		.
498	P3 Curr Day Low Time Time & Date for Item 453	00 00 00										.	
499	P3 Curr Day Low Date	01 01 01										.	
500	P1 Gas Pressure Pressure from the P1 pressure transducer.	0.0										.	
501	P2 Gas Pressure Pressure from the P2 pressure transducer.	0.0										.	
502	T1 Gas Temperature Temperature from temperature probe.	0.0										.	
503	Case Temperature	0.0										.	

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Temperature from inside case.												
504	Case Temp Maximum Since last manual reset.	-40.0										•	
505	Case Temp Minimum	99999.99										•	
506	P1 Calibration Zero Amount of offset required for the P1 transducer to obtain zero reading at zero pressure	0.0										•	
507	P1 Prev-1 Cal Zero Previous value of item 506	0.0										•	
508	P1 Calibration Span Amount of gain required for the P1 transducer to obtain correct readings at higher pressures	1.0										•	
509	P1 Prev-1 Cal Span Previous value of item 508	1.0										•	
510	P2 Calibration Zero Amount of offset required for the P2 transducer to obtain zero reading at zero	0.0										•	

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	pressure												
511	P2 Prev-1 Cal Zero Previous value of item 510	0.0										.	
512	P2 Calibration Span Amount of gain required for the P3 transducer to obtain correct readings at higher pressures	0.0										.	
513	P2 Prev-1 Cal Span Previous value of item 512	1.0										.	
514	T1 Calibration Zero Amount of gain required for correct reading at low temperatures.	0.0										.	
515	T1 Cal Prev-1 Zero Previous value of item 514	0.0										.	
516	T1 Calibration Span Amount of gain required for correct reading at higher temperatures.	1.0	1									.	
517	T1 Cal Prev-1 Span Previous value of item 516	1.0										.	

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
518	P1 Calibration Date Dates last calibrated	01 01 01										.	
520	T1 Calibration Date Temperature Cal Date	01 01 01										.	
521	Battery Voltage Reading Measured voltage from the main Battery	0.0										.	
522	Battery Low Volt Limit Battery Voltage Low Alarm set point	4.3										.	
523	Shutdown Voltage Limit Battery Voltage "HELP" (Shutdown) set point	4.0										.	
528	Clear Alarms via LCD	0	No									.	
		1	Yes									.	
530	Display List 1 Item 1 #	580										.	
531	Display List 1 Item 2 #	582										.	
532	Display List 1 Item 3 #	583										.	
533	Display List 1 Item 4 #	503										.	
534	Display List 1 Item 5 #	521										.	
535	Display List 1 Item 6 #	255										.	

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
536	Live Display Enable Live Parameters to be displayed on the LCD during the Display List operations.	0	None									.	
		1	P1									.	
		2	P2									.	
		3	P1 & P2									.	
		4	T									.	
		5	P1 & T									.	
		6	P2 & T									.	
		7	P1 P2 & T									.	
		8	P3									.	
		9	P1 & P3									.	
		10	P2 & P3									.	
		11	P1 & P2 & P3									.	
		12	P3 & T									.	
		13	P1 P3 & T									.	
		14	P2 P3 & T									.	
15	P1 P2 P3 & T									.			
537	Display List 2 Item 1 #	631										.	
538	Display List 2 Item 2 #	637										.	
539	Display List 2 Item 3 #	638										.	

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
540	Display List 2 Item 4 #	632										.		
541	Display List 2 Item 5 #	639										.		
542	Display List 2 Item 6 #	640										.		
543	Display List 2 Item 7 #	651										.		
544	Display List 2 Item 8 #	650										.		
545	Display List 2 Item 9 #	649										.		
546	Display List 2 Item10 #	255										.		
547	Display List 2 Item11 #	255										.		
548	Display List 2 Item12 #	255										.		
549	P1 Pressure Units Unit of measure for P1 pressure related items.	0	PSIG									.		
		1	PSIA									.		
		2	kPa										.	
		3	mPa										.	
		4	Bar										.	
		5	mBar										.	
		6	KGcm2										.	
		7	in WC										.	
		8	in HG										.	
9	mm HG										.			

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		10	Oz									.	
		11	Volts									.	
		12	milliVolts									.	
550	P2 Pressure Units Unit of measure for P2 pressure related items.	0	PSIG									.	
		1	PSIA									.	
		2	kPa									.	
		3	mPa									.	
		4	Bar									.	
		5	mBar									.	
		6	KGcm2									.	
		7	in WC									.	
		8	in HG									.	
		9	mm HG									.	
		10	Oz									.	
		11	Volts									.	
		12	milliVolts									.	
551	T1 Temperature Units Unit of measure for temperature related items	0	Fahrenheit									.	
		1	Celsius									.	
		2	Rankine									.	

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
		3	Kelvin									.		
552	Press Disp Resolution Number of digits displayed to the right of the decimal point	0	XXXXXXXX.									.		
		1	XXXXXX.X									.		
		2	XXXXX.XX										.	
		3	XXXX.XXX										.	
		4	XXX.XXXX										.	
553	P1 High Alarm Limit P1 High Alarm set point	99999.99										.		
554	P1 Low Alarm Limit P1 Low Alarm set point	-1.0										.		
555	P2 High Alarm Limit P2 High Alarm set point	99999.99										.		
556	P2 Low Alarm Limit P2 Low Alarm set point	-1.0										.		
557	T1 High Alarm Limit Temperature High Alarm set point	165.0										.		
558	T1 Low Alarm Limit Temperature Low Alarm set point	-35.0										.		
559	P1 High Pressure Alarm	0 / 1	No / Yes									.		

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
560	P1 Low Pressure Alarm	0 / 1	No / Yes									•	
561	P2 High Pressure Alarm	0 / 1	No / Yes									•	
562	P2 Low Pressure Alarm	0 / 1	No / Yes									•	
563	T1 High Temp Alarm	0 / 1	No / Yes									•	
564	T1 Low Temp Alarm	0 / 1	No / Yes									•	
565	Battery Low Volt Alarm	0 / 1	No / Yes									•	
568	Alarm Output	0 / 1	No / Yes									•	
569	Transducer Type See Item 112	0	Gauge									•	
		1	Absolute									•	
570	P1 Pressure Range PSI Always specified in PSI	100.0										•	
571	P2 Pressure Range PSI	100.0										•	
572	P1 Pressure Range User Transducer ranges converted to the selected pressure units	100.0										•	
573	P2 Pressure Range User	100.0										•	
574	P1 Transducer Serial # Same as serial number on the transducer label.	00000000										•	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
576	Instrument Config Indicates which analog channels are active for measurement	0	None									.	
		1	P1									.	
		2	P2									.	
		3	P1 & P2									.	
		4	T									.	
		5	P1 & T									.	
		6	P2 & T									.	
		7	P1 P2 & T									.	
		8	P3									.	
		9	P1 & P3									.	
		10	P2 & P3									.	
		11	P1 & P2 & P3									.	
		12	P3 & T									.	
		13	P1 P3 & T									.	
		14	P2 P3 & T									.	
15	P1 P2 P3 & T									.			
577	Recorder Serial Number	00000000										.	
578	Firmware Version Read-only item	3.xxxxx										.	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
580	Site ID Number Configurable ID number - used by software as the main search criteria.	00000000										.	
581	Site ID Number Part 2 Configurable ID number 2 - used by software as the main search criteria.	00000000										.	
582	Time Real-time 24-hour clock (HH:MM:SS)	00 00 00										.	
583	Date 6-digit Calendar Date format per Item 584	01-01-01										.	
584	Date Format Format in which the date will be entered and displayed	0	MM-DD-YY									.	
		1	DD-MM-YY									.	
		2	YY-MM-DD									.	
585	Logging Interval Time period to determine how often TIME records are placed in audit trail memory and when internal statistics are calculated.	0	24 Hours									.	
		1	60 Minutes									.	
		2	30 Minutes									.	
		3	15 Minutes									.	
		4	5 Minutes									.	
		5	1 Minute								.		

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
		6	10 Minutes									•		
586	Sample Interval Number of seconds between timed wakeups to obtain analog measurements.	0	60 Seconds									•		
		1	30 Seconds									•		
		2	15 Seconds										•	
		3	10 Seconds										•	
		4	5 Seconds										•	
		6	1 Second										•	
		587	Start Time User-assigned begin Time for 'Measurement Day'	00 00 00										•
588	Instrument Baud Rate Baud rate for the instrument's serial port.	0	9600									•		
		1	4800									•		
		2	2400										•	
		3	1200										•	
		4	600											
		5	300											
		6	19200										•	
		7	38400										•	
		8	AutoBaud										•	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
589	Audit Trail Item 1	500										•	
	Audit Trail Item 11	255			•		•	•					
	AT Group-1 Item-11	255		•									
590	Audit Trail Item 2	651										•	
	Audit Trail Item 12	255			•		•	•					
	AT Group-1 Item-12	255		•									
591	Audit Trail Item 3	650										•	
	Audit Trail Item 13	255			•		•	•					
	AT Group-1 Item-13	255		•									
592	Audit Trail Item 4	649										•	
	Audit Trail Item 14	255			•		•	•					
	AT Group-1 Item-14	255		•									
593	Audit Trail Item 5	672										•	
	Audit Trail Item 5	255			•		•	•					
	AT Group-1 Item-15	255		•									
594	Audit Trail Item 6	681										•	
	Audit Trail Item 6	255			•		•	•					
	AT Group-1 Item-16	255		•									
595	Audit Trail Item 7	671									•		

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
	Audit Trail Item 7	255			•		•	•						
	AT Group-1 Item-17	255		•										
596	Audit Trail Item 8	670										•		
	Audit Trail Item 18	255			•		•	•						
	AT Group-1 Item-18	255		•										
597	Audit Trail Item 8	503										•		
	Audit Trail Item 19	255			•		•	•						
	AT Group-1 Item-19	255		•										
598	Audit Trail Item 10	521										•		
	Audit Trail Item 20	255			•		•	•						
	AT Group-1 Item-20	255		•										
599	Time Log Trig	0	Inactive									•		
		1	Active									•		
600	Calibration Log Trig for items 599 – 604:	0	Inactive									•		
		1	Active									•		
	Field Cal Log Trig If enabled, indicates that the particular activity produces a time-stamped audit trail record.	0	Inactive										•	
		1	Active										•	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
601	AT Trigger ALARM	0	Inactive									•	
		1	Active									•	
602	AT Trigger SERIAL	0	Inactive									•	
		1	Active									•	
603	AT Trigger DISPLAY LIST	0	Inactive									•	
		1	Active									•	
604	AT Trigger CHANGE	0	Inactive									•	
		1	Active									•	
605-630	<p>P3 Coefficient 1-26 Item codes 605 - 630 are P3 Pressure Transducer compensation coefficients. These values determine the pressure response over the entire operating temperature range and are unique for each pressure transducer (regardless of the pressure range). The coefficient values are factory set and should NOT be modified! Caution: Pressure will <u>not</u> measure accurately if incorrect coefficients are used!</p>	0.0 (30.0)									•		

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
631	P1 Max Pressure * Highest value for item 500	0.0										.	
632	P1 Min Pressure * Lowest value for item 500	99999.99										.	
633	P2 Max Pressure * Highest value for item 501	0.0										.	
634	P2 Min Pressure * Lowest value for item 501	99999.99										.	
635	T1 Max Temperature * Highest value for item 502	0.0										.	
636	T1 Min Temperature * Lowest value for item 502	99999.99										.	
637	P1 Max Pressure Time Time & Date for Item 631	00 00 00										.	
638	P1 Max Pressure Date	01 01 01										.	
639	P1 Min Pressure Time Time & Date for Item 631	00 00 00										.	
640	P1 Min Pressure Date	01 01 01										.	
641	P2 Max Pressure Time	00 00 00										.	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Time & Date for Item 633												
642	P2 Max Pressure Date	01 01 01										.	
643	P2 Min Pressure Time Time & Date for Item 634	00 00 00										.	
644	P2 Min Pressure Date	01 01 01										.	
645	T1 Max Temperature Time Time & Date for Item 635	00 00 00										.	
646	T1 Max Temperature Date	01 01 01										.	
647	T1 Min Temperature Time Time & Date for Item 636	00 00 00										.	
648	T1 Min Temperature Date	01 01 01										.	
649	P1 Int Average Average, High and Low of all samples (586) on item 500 during the interval (585).	0.0										.	
650	P1 Int High Highest value of P1 during the interval	0.0										.	
651	P1 Int Low Lowest value of P1 during the interval	99999.99										.	
652	P2 Int Average	0.0										.	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Average, High and Low of all samples (586) on item 501 during the interval (585).												
653	P2 Int High Highest value of P2 during the interval	0.0										.	
654	P2 Int Low Lowest value of P2 during the interval	99999.99										.	
655	T1 Int Average Average, High and Low of all samples (586) on item 502 during the interval (585).	0.0										.	
656	T1 Int High Highest value of Temperature during the interval	0.0										.	
657	T1 Int Low Lowest Value of Temperature during the interval	99999.99										.	
658	P1 Int High Time Time & Date for Item 650	00 00 00		.		.						.	
659	P1 Int High Date	01 01 01										.	
660	P1 Int Low Time	00 00 00		.		.						.	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Time & Date for Item 651												
661	P1 Int Low Date	01 01 01										.	
662	P2 Int High Time Time & Date for Item 653	00 00 00										.	
663	P2 Int High Date	01 01 01										.	
664	P2 Int Low Time Time & Date for Item 654	00 00 00										.	
665	P2 Int Low Date	01 01 01										.	
666	T Int High Time Time & Date for Item 656	00 00 00										.	
667	T1 Int High Date	01 01 01										.	
668	T1 Int Low Time Time & Date for Item 657	00 00 00										.	
669	T1 Int Low Date	01 01 01										.	
670	P1 Curr Day Average Average, High and Low of all samples (586) on item 500 during the current day.	0.0										.	
671	P1 Curr Day High Pressure	0.0		.		.						.	
672	P2 Curr Day Low Pressure	99999.99		.		.						.	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
673	P2 Curr Day Average Average, High and Low of all samples (586) on item 501 during the current day.	0.0										.	
674	P2 Curr Day High	0.0										.	
675	P2 Curr Day Low	99999.99										.	
676	T1 Curr Day Average Average, High and Low of all samples (586) on item 502 during the current day.	0.0										.	
677	T1 Curr Day High	0.0										.	
678	T1 Curr Day Low	99999.99										.	
679	P1 Curr Day High Time Time & Date for Item 671	00 00 00										.	
680	P1 Curr Day High Date	01 01 01										.	
681	P1 Curr Day Low Time Time & Date for Item 672	00 00 00										.	
682	P1 Curr Day Low Date	01 01 01										.	
683	P2 Curr Day High Time Time & Date for Item 674	00 00 00										.	
684	P2 Curr Day High Date	01 01 01										.	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
685	P2 Curr Day Low Time Time & Date for Item 675	00 00 00										.	
686	P2 Curr Day Low Date	01 01 01										.	
687	T1 Curr Day High Time Time & Date for Item 677	00 00 00										.	
688	T1 Curr Day High Date	01 01 01										.	
689	T1 Curr Day Low Time Time & Date for Item 678	00 00 00										.	
690	T1 Curr Day Low Date	01 01 01										.	
691	P1 Prev Day Average Average, High and Low of all samples (586) on item 500 during the previous day.	0.0										.	
692	P1 Prev Day High Pressure	0.0		.		.						.	
693	P1 Prev Day Low Pressure	99999.99		.		.						.	
694	P2 Prev Day Average Average, High and Low of all samples (586) on item 501 during the previous day.	0.0										.	
695	P2 Prev Day High	0.0										.	
696	P2 Prev Day Low	99999.99										.	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
697	T1 Prev Day Average Average, High and Low of all samples (586) on item 502 during the previous day.	0.0										.	
698	T1 Prev Day High	0.0										.	
699	T1 Prev Day Low	99999.99										.	
700	P1 Prev Day High Time Time & Date for Item 692	00 00 00										.	
701	P1 Prev Day High Date	01 01 01										.	
702	P1 Prev Day Low Time Time & Date for Item 693	00 00 00										.	
703	P1 Prev Day Low Date	01 01 01										.	
704	P2 Prev Day High Time Time & Date for Item 695	00 00 00										.	
705	P2 Prev Day High Date	01 01 01										.	
706	P2 Prev Day Low Time Time & Date for Item 696	00 00 00										.	
707	P2 Prev Day Low Date	01 01 01										.	
708	T1 Prev Day High Time Time & Date for Item 698	00 00 00										.	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
709	T1 Prev Day High Date	01 01 01										.	
710	T1 Prev Day Low Time Time for Item 699	00 00 00										.	
711	T1 Prev Day Low Date Date for Item 699	01 01 01										.	
762	Dig Input 1 Active State	0	Disabled		.		.	.				.
		1	Closed		.		.	.				.
		2	Open		.		.	.				.
763	Dig Input 2 Active State	0	Disabled		.		.	.				.
		1	Closed		.		.	.				.
		2	Open		.		.	.				.
764	Dig Input 3 Active State	0	Disabled		.		.	.				.
		1	Closed		.		.	.				.
		2	Open		.		.	.				.
766	Dig Input 1 Alarm Status indicators for Digital Input Switch Alarms; Dig Inp1, Dig Inp2 and Dig Inp3. Alarm action governed by items 762 – 764.	0 / 1	No / Yes		.		.	.				.
767	Dig Input 2 Alarm	0 / 1	No / Yes		.		.	.				.

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
768	Dig Input 3 Alarm	0 / 1	No / Yes		•		•	•					
769	RBX Function Enable Enables RBX, which will auto-clear alarms when conditions return to normal.	0	No									•	
		1	Yes (enable RBX)									•	
770	P1 Pressure Dead Band P1 hysteresis band used by RBX	5.00 PSI										•	
771	T1 Temperature Dead Band Temperature hysteresis band used by RBX	10.00 F										•	
772	Battery Dead Band Battery voltage hysteresis band used by RBX	1.00 Volt										•	
773	AT Trigger CLR ALM Enables a "CLR ALM" log trigger in the audit trail report any time an alarm is cleared, either manually or by RBX.	0 / 1	No / Yes									•	
774	Protocol Code A See Item 170	0	Standard									•	
		1	No Timeout									•	
775	ENQ Timeout Delay	25	1 – 60 seconds									•	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
	See Item 171													
776	Sign-On Timeout Delay See Item 172	25	1 – 60 seconds									•		
777	RBX Alarm Event Status of RBX activity.	0	No RBX activity since last interrogation.									•		
		1	Yes RBX activity since last interrogation, intended to be reset to zero after each read.									•		
779	Sample Enable (ERX) Feature to temporally disable sampling, usually during calibration, and is automatically enabled on disconnect link.	0	Disabled									•		
		1	Enabled									•		
	Calibration Mode (EC 350)	0	No Calibration	•										
		1	P1 Calibration	•										
		2	T1 Calibration	•										
		3	P2 Calibration	•										
780	Modem Init String See Item 491	ATE0Q0V0X4										•		
781	Modem Dial String	ATDT										•		

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	See Item 492												
782	Modem Hangup String See Item 494	ATH0										.	
783	Call-Out Stop Time See Item 485	23 59 00										.	
784	Call-In Phone# / Addr 2 (Alarm Call-In Tel #2)	blank										.	
785	Call-In Phone# / Addr 1 (Alarm Call-In Tel #1)	blank										.	
786	Modem Retry Interval A See Item 495	5										.	
787	Modem Retry Interval B See Item 496	1440 (24 Hrs)										.	
788	Number of (A) Retries See Item 497	3										.	
789	Modem AT Enable See Item 486. Code-2 enables UDP mode – for Modems / Radios that are in an always connected	0	No (Use Alarm Pulses)									.	
		1	Yes (Enables AT Commands)									.	
		2	UDP Mode									.	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	mode of operation.												
790	Call-In Keep Alive Time See Item 487	15										.	
791	Call-Out Start Time See Item 490	00 00 00										.	
792	Call-Out Repeat Interval See Item 488	0										.	
793	Call-Out Keep Alive Time See Item 489	0										.	
795	External Supply Low Limit Low limit voltage set point for 796	-1.0		.									
796	Extern Supply Low Alarm	0 / 1	No / Yes	.									
807	P3 High/High Alarm Limit P3 High/High Alarm set point	99999.99										.	
808	P3 Low/Low Alarm Limit P3 Low/Low Alarm set point	-1.0										.	
809	P3 High/High Alarm	0 / 1	No / Yes									.	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
810	P3 Low/Low Alarm	0 / 1	No / Yes									•	
811	P2 Pressure Dead Band Hysteresis band for Pressure-2 for RBX mode.	5										•	
812	LCD Default Display See Item 482.	500										•	
813	P1 High/High Alarm Limit P1 High/High Alarm set point	99999.99										•	
814	P1 Low/Low Alarm Limit P1 Low/Low Alarm set point	-1.0										•	
815	P1 High/High Alarm	0 / 1	No / Yes									•	
816	P1 Low/Low Alarm	0 / 1	No / Yes									•	
817	P2 High/High Alm Limit P2 High/High Alarm set point	99999.99										•	
818	P2 Low/Low Alm Limit P2 Low/Low Alarm set point	-1.0										•	

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
819	P2 High/High Alarm	0 / 1	No / Yes									•	
820	P2 Low/Low Alarm	0 / 1	No / Yes									•	
821	Modem Init Delay In 1/10s of a second.	50 / 300		•	•	•	•	•				•	
825	Accuracy Change Indicates if the Accuracy calculation is used for volume adjustment	0 / 1	No / Yes				•						
826	Accuracy Alarm Indicates if an Accuracy alarm was generated based on items 869 and 830	0 / 1	No / Yes		•		•	•					
827	Incremental Energy Fwd Bidirectional Mode – Forward	0				•							
828	Adjustment Threshold Point where corrector begins adjusting volume	0.30					•						
829	Incremental Energy Rev Bidirectional Mode – Reverse	0				•							
830	Accuracy Alarm Limit	4.0					•						

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Alarm limit for Accuracy												
831	Incremental Energy Net Bidirectional Mode – Net	0				.							
832	Main Cartridge Serial # S/N of the turbine main meter cartridge	00000000					.						
	Items 833 – 836, 839 and 842 are entered as six comma separated decimal numbers. The values are found on the AccuTest Meter's datasheet.												
833	Initial Accuracy Calibrated accuracy at proof capacities.	0,0,0,0,0,0					.						
834	Main K Factors Main rotor K factors	0,0,0,0,0,0					.						
835	Ref Rotor K Factor 0 Reference rotor K factors at Cal pressure 0	0,0,0,0,0,0					.						
836	Ref Rotor K Factor 1 Reference rotor K factors at Cal pressure 1	0,0,0,0,0,0					.						
837	Calibration Pressure 0 High Calibration Pressure used for K factors	0.0					.						

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
838	Calibration Pressure 1 Low Calibration pressure used for K factors	0.0					.						
839	Main Calib % Capacity Proofed Main rotor % of rated capacity	0,0,0,0,0,0					.						
840	Turbine Corr Factor Current Accuracy correction factor	1.0					.						
841	Ref Cartridge Serial # S/N of reference meter cartridge	00000000					.						
842	Ref Calib % Capacity Proofed Reference rotor % of capacity	0,0,0,0,0,0					.						
843	Sched Call-In Failures Count of scheduled call-in failures	0		.	.	.				.		.
844	Last Sched Call-In Time Time of last Call-in.	00 00 00		.	.	.				.		.
845	Last Sched Call-In Date Date of last Call-in.	01 01 01		.	.	.				.		.
846	Next Sched Call-In Time Time of next Call-in. May be reset by host software after each call or re-used for next	00 00 00		

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Call-in												
847	Next Sched Call-In Date Date of next Call-in. Intended to be reset by host software after each call	01 01 01		•	•	•				•		•	
848	Firmware Install CRC	0				•					•		
849	Loader Install CRC	0									•		
850	Adjusted Volume Totalized Adjusted Uncorrected Volume, scaled to volume units selected at Item 092.	0						•	•				
851	Hi Res Adjusted Volume Display of the fractional portion (to the 6 th decimal) of Item 850. The far right Adjusted Volume integer is included for reference.	0.0							•				
852	Unadjusted Volume Totalized Unadjusted Uncorrected Volume, scaled to volume units selected at Item 092.	0						•	•				
853	Turbine Adj Flow Rate Most recent instantaneous rate of flow for Adjusted Volume (850), expressed in the	0.0						•	•				

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	selected Adjusted Volume units per hour.												
854	Turbine UnAdj Dial Rate Most recent instantaneous rate of flow for Unadjusted Volume (852), expressed in the selected Unadjusted Volume units per hour.	0.0						•	•				
855	Turbine Configuration Select (0 or 1) to determine whether TIB fetches config items from Mini-AT Bd. (i.e. TOC) or if internal TIB items are always used	0	Turbine Support Off		•		•						
			Turbo Monitor Mode				•	•					
		1	Turbo Corrector Mode		•		•	•	•				
		2	AccuTest Mode		•		•	•	•				
856	TIB J7 to Main TB2 Baud TIB to Mini-AT baud rate at J7.	0	9600				•	•	•				
		1	4800				•	•	•				
		2	2400				•	•	•				
		3	1200				•	•	•				
		4	600				•	•	•				
		5	300				•	•	•				
		6	19200				•	•	•				
		7	38400				•	•	•				
857	TIB J5 to Case Baud TIB to Case Connector baud rate at J5.	0	9600				•	•	•				
		1	4800				•	•	•				

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		2	2400				.	.	.				
		3	1200				.	.	.				
		4	600				.	.	.				
		5	300				.	.	.				
		6	19200				.	.	.				
		7	38400				.	.	.				
		0	9600				.	.	.				
858	TIB TB4 to Modem Baud TIB to Modem baud rate at TB4.	1	4800				.	.	.				
		2	2400				.	.	.				
		3	1200				.	.	.				
		4	600				.	.	.				
		5	300				.	.	.				
		6	19200				.	.	.				
		7	38400				.	.	.				
859	AdjVol Pulses Waiting Number of 'Overflow' Adjusted Volume output pulses waiting to be sent to switch #3 at J9 of the Mini-AT main board.	0						.	.				
860	UnAdjVol Pulses Waiting	0					.	.					

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Number of 'Overflow' Unadj. Volume output pulses waiting to be sent to switch #4 at J9 of the Mini-AT main board.												
861	TIB Serial Number Factory assigned board serial number.	00000000					.	.	.				
862	TIB Firmware Version Version number of the installed TIB firmware.	1.0					.	.	.				
863	Meter Serial Number Serial number of the turbine meter connected to the TOM or TOC.	00000000					.	.	.				
864	Turbine Meter Size Size of the meter	0	AAT-18 (4 inch 45 deg Rotor)				.	.	.				
		1	AAT-27 (4 inch 30 deg Rotor)				.	.	.				
		2	AAT-35/30 (6 inch 45 deg Rotor)				.	.	.				
		3	AAT-57 (6 inch 30 deg Rotor)				.	.	.				

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		4	AAT-60 (8 inch 45 deg Rotor)				•	•	•				
		5	AAT-90 (8 inch 30 deg Rotor)				•	•	•				
		6	AAT-140				•	•	•				
		7	AAT-230				•	•	•				
865	KM Meter Factor K-factor for the meter's Main Rotor as indicated on the serial plate, i.e. number of pulses per cubic foot (or meters)	100						•	•				
866	KS Meter Factor K-factor for the meter's Sense Rotor as indicated on the serial plate, i.e. number of pulses per cubic foot (or meters)	100						•	•				
867	Abar Meter Factor Factory assigned amount of relative adjustment the Sense Rotor supplies to the Adjusted Volume.	10.0						•	•				
868	KMO Meter Factor	100.0						•	•				

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	K-factor for the meter's Main Rotor to produce the Unadjusted Volume, i.e. number of pulses per cubic foot (or meters)												
869	Instantaneous Accuracy Instantaneous Delta A Most recent calculated Delta-A, used to measure inaccuracies in the entire piping system	0.0					.	.	.				
870	Turbine Sensor Type Indicates the type of sensor used in the connected turbine meter.	0	Slot Sensor					.	.				
		1	Blade Tip Sensor										
871	TIB 4-20 Out Config Type of analog signal provided at TB2, i.e. the 4-20 mA output port.	0	Delta A										
		1	Flow										
		2	Test 4 mA					.	.				
		3	Test 12 mA										
		4	Test 20 mA										

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
872	Normal Alarm Limit Limit for a Delta-A Alarm, entered as a percentage of Abar. When exceeded, produces a "Normal Alarm" at Item 877 Range: +-10%	2.0	+ or – 2.0%					•	•				
873	Abnormal Alarm Limit Limit for a Delta-A Alarm, entered as a percentage of Abar. When exceeded, produces a "Abnormal Alarm" at Item 878. Range is: +-10%	5.0	+ or – 5.0%					•	•				
874	Pulsing Gas Alarm Indicates whether pulsing gas is detected by the Delta-A algorithm.	0 / 1	No / Yes				•	•	•				
875	TIB Internal Fault Indicates whether any TIB hardware alarm became active, i.e. Items 874, 875, 877 or 878. Similar to Item 108.	0 / 1	No / Yes				•	•	•				
876	TIB Alarms Output Indicates whether Delta-A (869) is outside the "normal" alarm limits. Clears	0 / 1	No / Yes				•	•	•				

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	automatically if RBX is enabled												
877	TIB Normal Alarm A hysteresis band that provides a buffer inside the "Normal" alarm limits to prevent alarm oscillation when Normal alarms are automatically cleared by RBX. (D) 1	0 / 1	No / Yes				•	•	•				
878	TIB Abnormal Alarm Indicates if Delta-A (869) is outside the "abnormal" alarm limits. Clears automatically if RBX is enabled	0 / 1	No / Yes				•	•	•				
879	Normal Alarm Dead Band Shows if Delta-A(869) is outside "normal" alarm limits. Clears automatically if RBX is enabled	1.0						•	•				
880	Abnormal Alarm Dead Band A hysteresis band that provides buffer inside "Abnormal" alarm limits to prevent alarm oscillation when Abnormal alarms are cleared by RBX.	1.0	1					•	•				

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
881	Main Rotor Frequency Display of the most recent measurement of Main Rotor frequency in Hertz, i.e. pulses per second.	0					•	•	•				
882	Sense Rotor Frequency Display of the most recent measurement of Sense Rotor frequency in Hertz, i.e. pulses per second.	0					•	•	•				
883	Adjusted Volume Pulses Number of Adj. Volume pulses waiting to be sent out TIB output (TB1). Similar to item 5, 6, & 7.	0						•	•				
884	Adj Flow 20mA Value User defined integer to scale the Adj. Vol. Flow Rate at the 20 mA value.	1.5 x 18,000						•	•				
885	Adj Flow 4mA Value User defined integer to scale the Adj. Vol. Flow Rate at the 4 mA value.	0.0						•	•				
886	Average Accuracy Average of all Delta-A calculations obtained	0.0					•	•	•				

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	during the audit trail Log Interval (Item 202).												
887	8515 Firmware Version Second of two TIB on-board firmware.	1.0					.	.	.				
888	Incremental Adj Vol Amount of Adjusted Volume that has accumulated during the audit trail Log Interval (Item 202).	0						.					
889	High Freq Out Max Freq Determines the Adjusted Volume output freq from the Turbo Frequency Board (TFB) at 100% Flow Rate for the AAT selected at Item 864.	0	50 Hz					.	.				
		1	100 Hz					.	.				
		2	200 Hz					.	.				
		3	500 Hz					.	.				
		4	1000 Hz					.	.				
890	Counts per Delta-A Calc Number of main rotor pulses required to re-compute Delta-A or every 8.5 minutes	25,000					.	.					
891	Prev Hour Unc Vol	0		.		.							
892	High Resolution Unc Vol Uncorrected vol displayed to 4 th decimal	0.0		.	.	.				.

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	place												
893	Hi Res Cor Vol Forward Cor Vol Forward displayed to 4 th decimal place	0.0			.	.	.	.	
894	Hi Res Cor Vol Reverse CorVolume reverse displayed to 4 th decimal place	0.0			.	.	.	.	
895	Hi Res Cor Vol Net Cor Volume net displayed to 4 th decimal place	0.0			.	.	.	.	
896	Cor Volume Forward Corrected forward only volume	0		.	.	.	.	.
897	Forward Incremental Cor Volume Corrected forward only volume for the interval	0		.	.	.	.	.
898	Uncor Volume Forward Unc forward only volume	0		.	.	.	.	.
899	Forward Incremental Unc Volume Uncorrected forward only volume for the	0		.	.	.	.	.

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	interval												
900	Net corrected Volume	0		.	.	.	.	.
901	Net Incremental Cor Volume Net corrected volume for the interval	0		.	.	.	.	.
902	Reverse Corrected Volume Corrected volume in the reverse direction only	0		.	.	.	.	.
903	Reverse Interval Cor Volume Corrected volume in the reverse direction only for the interval	0		.	.	.	.	.
904	Uncor Volume Net Net Uncorrected volume	0		.	.	.	.	.
905	Net Incremental Uncor Volume Net uncorrected volume for the interval	0		.	.	.	.	.
906	Reverse Uncor Volume Uncorrected volume in the reverse direction only	0		.	.	.	.	.
907	Reverse Incremental Unc Volume Uncorrected volume in the reverse direction	0		.	.	.	.	.

Mercury Instruments Item Reference Guide

#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
	only for the interval													
908	Ch-2 FixedFactor Volume Total volume reading	0								.				
909	Ch-2 Inc FixedFactor Vol Total volume reading for the interval	0								.				
910	Ch-2 Accumulated Volume Volume reading	0								.				
911	Ch-2 Inc Accumulated Vol Volume reading for the interval	0								.				
912	Ch-2 Input Pulse Value Selection to indicate the amount of uncorrected volume per input pulse	0	1 CF							.				
		1	5 CF							.				
		2	10 CF								.			
		3	100 CF								.			
		4	1000 CF								.			
		5	0.1 m3								.			
		6	1 m3								.			
		7	10 m3								.			
		8	100 m3								.			
9	1000 m3								.					

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		10	10000 CF							.			
		11	0 CF							.			
913	Ch-2 Input Pulse Scaling Most cases 1.000									.			
914	Register Offset By 1 When enabled, adds "1" to the register number in the response to a query. Needed for systems that subtract "1" from the register Address.	0	No	.									.
		1	Yes	.									.
915	Modbus Protocol Type	0	ASCII	.									.
		1	RTU	.									.
916	Instrument Callin Enable Controls whether the PT Board will allow ports J5 or J6 to pass-through an instrument initiated call-in to a host system	0	Call In not permitted										.
		1	Call In Permitted										.
917	Alarm-Event Log Enable	0	No										.

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#	Item Name & Brief Description	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Item 983be enabled (1) to activate the LOG retrieval process. This item (917) to limit the log retrieval process to only Hourly/Daily data, skipping both Alarms and Event data.												
		1	Yes										
918	J4 CTS Timeout Timeout period the PT board will wait (after asserting RTS) for a CTS signal from the modem on the J4 port, before sending data. Used when Item 982 is set to Code-1 (Delay for CTS).	10											•

Mercury Instruments Item Reference Guide

#	Item Name	Code or Default Value	Options (if applicable)	EC350	MINI - AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
919	Item Register Offset	7000											•
920	Daily Archive Item 10 Configurable list of Items that are read directly from the Instrument just after gas-day start time (Item 205) and then stored in Modbus Daily Archive array. Defaults are 'Previous Day' type Items.	0											•
921	Daily Archive Item 9 See Item 920 above.	2											•
922	Daily Archive Item 8 See Item 920 above.	195											•
923	Daily Archive Item 7 See Item 920 above.	194											•
924	Daily Archive Item 6 See Item 920 above.	189											•

Mercury Instruments Item Reference Guide

#	Item Name	Code or Default Value	Options (if applicable)	EC350	MINI - AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
925	Daily Archive Item 5 See Item 920 above.	191											•
926	Daily Archive Item 4 See Item 920 above.	183											•
927	Daily Archive Item 3 See Item 920 above.	184											•
928	Daily Archive Item 2 See Item 920 above.	186											•
929	Daily Archive Item 1 See Item 920 above.	185											•
930	Modbus Read-Only Mode	0	No	•									•
		1	Yes										
931	Always Active Port Enable one port (J2, J3 or J4) to remain active so it will respond on the 1 st Modbus query. When	0	Power Save										•
		1	Reserve										•
		2	J2										•

Mercury Instruments Item Reference Guide

#	Item Name	Code or Default Value	Options (if applicable)	EC350	MINI - AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Power Save requires two queries for wakeup response (if PT Board in sleep state). Active modes require 10mA minimum continuously.	3	J3 Port										•
		4	J4 Port										•
932	Register Data Format	0	32 bits MSB	•									•
		1	16 bits MSB	•									•
		2	16 bits LSB	•									•
933	Archive Time Format Format of Time assigned to each archive record	0	HH:MM										•
		1	HH:MM:SS										•
934	Modbus Protocol Enable	0	Disabled	•									
		1	Enabled	•									
935	Modbus Float Mapping Enable Float Item mapping	0	Disabled	•									
		1	Enabled	•									
936	Modbus Boolean Mapping Enable Boolean Item mapping	0	Disabled	•									
		1	Enabled										
940 – 979	Modbus Float 7000 Item – 7039 Item (any valid Instrument Item #)	255	Any valid Item	•									•
980	Enable Mapping Controls the use of item number to Modbus	0	No										•

Mercury Instruments Item Reference Guide

#	Item Name	Code or Default Value	Options (if applicable)	EC350	MINI - AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	register mapping. Mapped Instrument Item	1	Yes										•
981	Time/Date Format Selects the format for writing Date and Time to PT Board's Archive memory	0	Use IEEE 754 Floating Point										•
		1	Use BCD (Teledyne Vector Spec.)										•
982	Modem Control Mode (J4)	0	Normal										•
		1	Delay for CTS										•
		2	Radio Keying										•
983	Log Mode Enable Controls whether the PT board retrieves Hourly and Daily Archive/Event data from the Mercury Instrument device on an hourly basis.	0	No										•
		1	Yes										•
984	RS232 J4 Baud J4 serial connection baud rate. J4 is usually connected to the RS-232 con of a modem.	0	9600										•
		1	4800										•
		2	2400										•
		3	1200										•
		5	19200										•
		6	38400										•

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	MINI - AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		7	57600										.
985	RS485 J2 Baud J2 serial connection baud rate. J2 is the two-wire RS-485/RS-422 interface.	0	9600										.
		1	4800										.
		2	2400										.
		3	1200										.
		4	600										.
		5	19200										.
		6	38400										.
988	Modbus BCD Time-Date (SW Gas) Special format for Teledyne-Vector	0	No										.
		1	Yes										.
989	Firmware Version Version number of the PT firmware. Upgrade using an MPA.	3.0	Varies with each Release										.
990	Log Variant Selects the format and record size for Archive	0	ENRON Spec										.
		1	MERCURY										.
991	AT Modem Hangup Enable Enables AT cmd: 'ATH0' to be sent out J4 port after serial comms end.	0	No										.
		1	Yes										.

Mercury Instruments Item Reference Guide

#	Item Name	Code or Default Value	Options (if applicable)	EC350	MINI - AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
992	Slave Device Address Modbus configuration parameter (main address)	1	1-255										•
994	Instrument Type Selects the Mercury Instrument device type for Modbus Mode. Note: Ignored while in Mercury Protocol Mode.	0	ECAT										•
		1	ER / ERX										•
		2	MINI										•
		3	MINI-AT										•
		4	MINI-MAX										•
		5	Reserved										•
		6	Turbo Mon										•
995	Communications Format Selects the asynchronous character parameters for Modbus	0	8 / None / 1										•
		1	7 / Even / 1										•
		2	7 / Odd / 1										•
		3	7 / Even / 1										•
		4	7 / Odd / 1										•
996	Instrument J5/J6 Baud	0	9600										•
		1	4800										•
		2	2400										•

Mercury Instruments Item Reference Guide

#	Item Name	Code or Default Value	Options (if applicable)	EC350	MINI - AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	J5 / J6 (Instrument Serial Connection) baud rate. This baud does not need to match the Host's system baud – only the Instrument's.	3	1200										•
		4	600										•
		6	19200										•
		7	38400										•
		8	57600										•
997	RS232 J3 Baud J3 (Local Serial Connection) baud rate. J3 is usually connected to the external case connector.	0	9600										•
		1	4800										•
		2	2400										•
		3	1200										•
		4	600										•
		6	19200										•
		7	38400										•
		8	57600										•
998	Inactivity Timeout Timeout period (in sec.) the PT board waits for Host SCADA System to send subsequent Modbus query commands before returning back to sleep.	15										•	

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	MINI - AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
999	Protocol Detect Timeout Configurable timeout period (in sec.) to waits for Host to start a valid protocol session, eg. "ENQ" (Mercury) or Colon ":" (Modbus).	15											•
1000	LCD Viewing Position Electronically inverts the LCD characters for right or left side meter mounting.	0	Right-side Mount								•		
		1	Left-side Mount								•		
1001	Remaining Battery Months Expressed in Months	8 / 24		•							•		
1002	Battery Percent Remaining	100		•							•		
1003	Total Battery(s) Amp-Hrs / Battery AmpHrs Override Amp-hr rating of lithium batt.		Battery Type dependent	•							•		
1004	RT-Clock Osc Correction Delta correction to Temp	0											
	Clock Drift Factor					•					•	•	
1005	Volume Sensor Test Mode A 'Difference' count test of both sensors	0	Disabled								•		
		1	Enabled										

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	MINI - AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
1006	Unit Cal and Test Status Must be set to code '0' (Cal / Tested) to show expected default display Item. Note: some Item changes do require Item 1006 to be set to Code '1' to modify them.	0	Calibrated and Tested								•			
		1	Not Cal or Tested								•			
		2	Temp Cal Fault									•		
		4	Vol Sensor Fault									•		
		8	AMR Output Fault									•		
		16	Clock Cal Fault									•		
		32	Prover LED Fault								•			
1008	Voltage Booster On Temp Cold temp compensation for Power System (C)	-15.0									•			
1009	LCD Default Contrast Generally does not need to be modified.	12 / 25		•							•			
1010	Case Temp Zero Point Used during factory calibration.	0.0		•							•			
1011	Memory Module S/N Tracks item 062	0									•			
1012	Memory Module Site ID 1 Tracks item 200	0									•			

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	MINI - AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
1013	Memory Module Site ID 2 Tracks item 201	0									.			
1014	Ch-A Pulse Output Timing Provides choices for setting the pulse On-time and Off-time (in mSec.) to obtain optimal performance.	0	Closed 10 mSec – Open 20+ mSec	.							.			
		1	Closed 20 mSec – Open 40+ mSec	.										
		2	Closed 30 mSec – Open 60+ mSec	.										
		3	Closed 50 mSec – Open 100+ mSec	.										
		4	Closed 75 mSec – Open 150+ mSec	.										
		5	Closed 100 mSec – Open 200+ mSec	.										
		6	Closed 200 mSec – Open 400+ mSec											
		7	Closed 500 mSec – Open 1000+ mSec											
		8	Closed 50 mSec – Open 250+	.										
		9	Badger (Closed 10 mSec – Open 400+ mSec)	.										
		10	Cellnet / Hunt (Closed 25 mSec Open 100+ mSec)	.										

Mercury Instruments Item Reference Guide

#	Item Name	Code or Default Value	Options (if applicable)	EC350	MINI - AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		11	Hexagram / Aclara (Closed 15 mSec – Open 400+ mSec)	•									
		12	Closed 10mSec –Open 400+ mSec	•									
		13	Itron (Closed 30 mSec – Open 400+ mSec)	•									
		14	Mercury PA (449 Filter Off) (Closed 50 mSec – Open 80+ mSec)	•									
		15	Mercury / Melbourne SIP/CPA/IMU-II (Closed 50 mSec – Open 80+ mSec)	•									
		16	Mercury / Melbourne SIP-CB (Closed 25 mSec – Open 25+ mSec)	•									
		17	Closed 50 mSec – Open 50+ mSec	•									
		18	Closed 50 mSec – Open 150+ mSec	•									
		19	Closed 50 mSec – Open 500+ mSec	•									
		20	Closed 150 mSec – Open 150+ mSec	•									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	MINI - AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
1015	Ch-B Pulse On/Off Time Same selections as Item 1014	8	Closed 50 mSec – Open 250+ mSec	•							•		
1016	Ch-C Alarm On Time Value selection in seconds	300									•		
	Alarm Channel Pulse Timing Value selection in seconds	12		•									
1017	RT-Clock Osc Corr Temp Related to item 1004	0.0									•		
1019	Main Board S/N Factory set parameter	00000000		•		•					•	•	
1021	Reversing Flow Alarm Time	00 00 00		•		•							
1022	Reversing Flow Alarm Date	01 01 01		•		•							
1024	Ch-C Pulse On/Off Time Same selections as Item 1014	8	Closed 50 mSec – Open 250+ mSec	•							•		
1025	Super Compress Alarm Indicates an issue with Supercompressability cal.	0		•									
1026	P1 Xdcr Comp Temp Factory set parameter	0.0		•									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	MINI - AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
1027	Super Compress Min MS (Honeywell Diagnostics)	0		•									
1028	Super Compress Max MS (Honeywell Diagnostics)	0		•									
1029	Super Compress Avg MS (Honeywell Diagnostics)	0		•									
1030	Sched Call-In Number-2	blank		•									
1032	System Alarm Mask Mask out any of the 'System Alarm' conditions (bit coded)	12288	Slow CPU Clock + Audit Write Error	•									
1033	Temp Board Coef Zero Factory set – zero point.	0.0		•									
1034	Temp Board Coef Span Factory set – span factor.	1.0		•									
1035	Metro Cnfg Change Alarm Indicates if Metrological Configuration type Items have had values unexpectedly changed . Coded based on Metrological protection classifications.	0	No	•									
		1	Sealed Items	•									
		2	Event Items	•									

Mercury Instruments Item Reference Guide

#	Item Name	Code or Default Value	Options (if applicable)	EC350	MINI - AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		3	Event & Sealed Items	•									
1036	Test Result Int (Honeywell Diagnostics)	0		•									
1037	Test Result Flt (Honeywell Diagnostics)	0		•									
1038	P1 ADC Value (Honeywell Diagnostics)	0		•									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
1040	T1 ADC Value (Honeywell Diagnostics)	0		•									
1041	P2 ADC Value (Honeywell Diagnostics)	0		•									
1042	AT Group-1 Enable Enable usage of Log 1	0	No	•									
		1	Yes	•									
1043	AT Group-1 Allocation Amount of memory space allocated to log 1 - Percent	100		•									
1044	Board Version	CDMA -E		•									
1045	Board ADC Value (Honeywell Diagnostics)	0		•									
1046	Extern Supply Volts	0		•									
1047	Extern ADC Value (Honeywell Diagnostics)	0		•									
1048	Battery ADC Value (Honeywell Diagnostics)	0		•									
1049	T-Case ADC Value (Honeywell Diagnostics)	0		•									
1050	Raw Sensor 3 Counts	0		•									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	(Honeywell Diagnostics)												
1051	Raw Sensor 4 Counts (Honeywell Diagnostics)	0		•									
1052	P1 Transducer Enable Enable or disable P1 Pressure Transducer measurements. Disable if P1 Pressure is not being used at all to save Battery Power and possible Alarm conditions	0	No	•									
		1	Yes	•									
1053	P2 Transducer Enable Enable or disable P2 Pressure Transducer measurements. Disable if P2 Pressure is not being used at all to save Battery Power and possible Alarm conditions.	0	No	•									
		1	Yes	•									
1055	T1 Temp Probe Enable Enable or disable Temperature measurements – disable if Temperature Probe is not being used at all to save Battery Power and possible Alarm conditions.	0	No	•									
		1	Yes	•									
1056	LCD Display On Time	06 00 00		•									
1057	LCD Display Off Time	18 00 00		•									
1058	P1 Transducer Alarm	0 / 1	No / Yes	•									
1059	P2 Transducer Alarm	0 / 1	No / Yes	•									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
1061	Battery Pack Type	0	Alkaline (4 Cells)	•										
		1	Lithium (2 Cells)	•										
		2	Lithium (4 Cells)	•										
1062	Tamper Status See Item 107 – Tamper Alarm (gives condition of Tamper Switch state).	0	No Tamper	•										
		1	Tamper Detected	•										
1063	Extern Supply Alarm Time	00 00 00		•										
1064	Extern Supply Alarm Date	01 01 01		•										
1065	AT Group-2 Interval Log interval for log 2	1	1 Minute	•										
		5	5 Minutes	•										
		10	10 Minutes	•										
		15	15 Minutes	•										
		1440	Daily	•										
		30	30 Minutes	•										
		60	Hourly	•										
		44640	Monthly	•										
1066	AT Group-2 Enable Enable logging for log 2.	0	No	•										
		1	Yes	•										
1067	AT Group-2 Allocation	0.0		•										

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
	Amount of memory allocated to Log 2. (0 – 100%)													
1069 - 1088	AT Group-2 Item 1 – 20 User selectable historical data for Log 2.	255		•										
1089	AT Group-3 Interval Interval for Log 3.	1	1 Minute	•										
		5	5 Minutes	•										
		10	10 Minutes	•										
		15	15 Minutes	•										
		1440	Daily	•										
		30	30 Minutes	•										
		60	Hourly	•										
1090	AT Group-3 Enable Enable logging data into Log 3.	0	No	•										
		1	Yes	•										
1091	AT Group-3 Allocation Amount of memory to be used by log 3. (0 – 100%)	0.0		•										
1093 - 1112	AT Group-3 Item-1 - AT Group-3 Item-20 User selectable historical data for log 3	255		•										
1113	AT Group-4 Interval	1	1 Minute	•										

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
	Interval to log into log 4	5	5 Minutes	•										
		10	10 Minutes	•										
		15	15 Minutes	•										
		1440	Daily	•										
		30	30 Minutes	•										
		60	Hourly	•										
		44640	Monthly	•										
1114	AT Group-4 Enable Enables Logging values into Log 4.	0	No	•										
		1	Yes	•										
1115	AT Group-4 Allocation Memory allocated to Log 4. (0 – 100 %)	0.0		•										
1117 - 1136	AT Group-4 Item-1 - AT Group-4 Item-20 User selectable historical data for Log 4	255		•										
1137	AT Group-5 Interval Interval to Log into Log 5	1	1 Minute	•										
		5	5 Minutes	•										
		10	10 Minutes	•										
		15	15 Minutes	•										
		30	30 Minutes	•										
		1440	Daily	•										

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		60	Hourly	•									
		44640	Monthly	•									
1138	AT Group-5 Enable Enables Logging values into Log 5.	0	No	•									
		1	Yes	•									
1139	AT Group-5 Allocation Memory to be allocated to Log 5. (0 – 100%)	0.0		•									
1141 - 1160	AT Group-5 Item 1 – 20 User selectable historical data for Log 4	255		•									
1161	P1 Fixed Pressure Value Pressure value to use for computation of the pressure factor when instrument is configured (through item 109) as Fixed Pressure. Do not set Item 008 or 044 for fixed mode.	0.0		•									
1162	Fixed Temperature Value Temperature value to use for computation of the temperature factor when instrument is configured (through item 111) as Fixed Temperature. Do not set Item 026 or 045 for fixed mode.	0.0		•							•		
1163	Access Jumper Status Metrological protection jumper plug status	0	Disconnected	•									
		1	Connected	•									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
1164	Prod Test Config (Honeywell Test Item)	0		.									
1166	Raw Sensor 1 Counts (Honeywell Diagnostics)	0		.									
1167	Raw Sensor 2 Counts (Honeywell Diagnostics)	0		.									
1168	Battery Low Alarm Value Value at which low battery alarm was detected	6.0		.									
1169	P1 High Alarm Value Value at which high pressure alarm was detected	0.0		.									
1170	P1 Low Alarm Value Value at which low pressure alarm was detected	0.0		.									
1171	Temp High Alarm Value Value at which high temperature alarm was detected	0.0		.									
1172	Temp Low Alarm Value Value at which low temperature alarm was detected	0.0		.									
1173	Daily CorVol Alarm Value Value at which Daily CorVol alarm was detected	0		.									
1174	Flow Rate Hi Alarm Value	0.0		.									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
	Value at which flow rate high alarm was detected													
1175	Firmware CRC Calculated CRC of the application firmware used to authenticate the firmware.	0		•										
1176	Loader CRC Calculated CRC of the loader firmware used to authenticate the firmware.	0		•										
1177	Loader Version Loader version (read only)	3.0		•										
1178	Interval for Statistics Value defines what interval for calculating statistical data.	1	1 Minute	•										
		5	5 Minutes	•										
		10	10 Minutes	•										
		15	15 Minutes	•										
		30	30 Minutes	•										
		60	Hourly	•										
		1440	Daily	•										
44640	Monthly	•												
1179	Test Command (Honeywell Diagnostics)	0		•										

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
1180 - 1184	Test Arg 1 – Test Arg 5 (Honeywell Diagnostics)	0		•										
1185	T1 Temp Probe Type (for future use) define which type of probe is used	0	Thermistor NTC	•										
1186	T1 Temp Probe Range Read only dependent upon "units" selected	0	-40 to 158	•										
		1	-40 to 70	•										
		2	420 to 618	•										
		3	233 to 343	•										
1187	T1 Temp Probe S/N Temperature probe serial number – Max 20 Alpha-Numeric.	00000000		•										
1188	Vol Conversion Method Output PTZ format, updated by the following Items: 109 (fixed / live pressure), 111 (fixed / live temperature), and 147 (super compressibility ON / OFF).	0	None (Fixed)	•										
		1	Press	•										
		2	Temp	•										
		3	Press + Temp	•										
		4	Super	•										
		5	Press + Super	•										
		6	Temp + Super	•										
		7	Press + Temp + Super	•										

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
1190	Meter S/N User can enter the serial number of the meter into the corrector for traceability	00000000		•										
1191	Battery Usage Alarm Time Time stamp when battery usage alarm occurred.	00 00 00		•										
1192	Battery Usage Alarm Date Date stamp when battery usage alarm occurred.	01 01 01		•										
1193	Ch-A Pulse Output Value Channel A pulse weighting (formerly Item 56)	0	1 CF	•							•			
		1	10 CF	•							•			
		2	100 CF	•								•		
		3	1000 CF	•								•		
		4	10000 CF	•								•		
		5	0.1 m3	•								•		
		6	1 m3	•								•		
		7	10 m3	•								•		
		8	100 m3	•								•		
		9	1000 m3	•								•		
1194	Ch-B Pulse Output Value Channel B pulse weighting (formerly Item 57)	0	1 CF	•							•			
		1	10 CF	•							•			

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
		2	100 CF	•							•			
		3	1000 CF	•							•			
		4	10000 CF	•							•			
		5	0.1 m3	•							•			
		6	1 m3	•							•			
		7	10 m3	•							•			
		8	100 m3	•							•			
		9	1000 m3	•							•			
		1195	Ch-C Pulse Output Value Channel C pulse weighting (formerly Item 58)	0	1 CF	•							•	
1	10 CF			•							•			
2	100 CF			•								•		
3	1000 CF			•								•		
4	10000 CF			•								•		
5	0.1 m3			•								•		
6	1 m3			•								•		
7	10 m3			•								•		
8	100 m3			•								•		
9	1000 m3			•								•		
1196-	AT Log 1 Name – AT Log 5 Name	Blank		•										

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
1200	User has the ability to give each audit trail Log a descriptive name of up to 20 characters. This is used as reference for assisting the user to determine the correct information before downloading the data or to makes it easier to sort the data once it is on their computer.												
1201	AT Total Usable Bytes (Honeywell Diagnostics)	0		•									
1202	Audit Trail Column Size (Honeywell Diagnostics)	0		•									
1203	AT Record Overhead (Honeywell Diagnostics)	0		•									
1204	Check Task Stack Usage Stack Diagnostics	0		•									
1205	Check Stack Slot Number (Honeywell Diagnostics)	0		•									
1206	Check Main Stack Usage (Honeywell Diagnostics)	0		•									
1207	MiscNv Memory Writes (Honeywell Diagnostics)	0		•									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
1208	Alarm-Event Writes (Honeywell Diagnostics)	0		.									
1209	AT Log Writes (Honeywell Diagnostics)	0		.									
1210	AT Log Erasures (Honeywell Diagnostics)	0		.									
1211	P2 Pressure Low Alarm Time	00 00 00		.									
1212	P2 Pressure Low Alarm Date	01 01 01		.									
1213	P2 Press High Alarm Time	00 00 00		.									
1214	P2 Pressure High Alarm Date	01 01 01		.									
1215	P2 High Alarm Value Value recorded for the Alarm condition	0.00		.									
1216	P2 Low Alarm Value Value recorded for the Alarm condition	0.00		.									
1217	P2 Xdcr Comp Temp The pressure transducer temperature associated with the most recent P2 pressure reading.	0.00		.									
1218	P2 Tcomp ADC Value Raw analog reading of P2 transducer temperature .	0		.									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	(Honeywell Diagnostics)												
1219	Serial Wakeup Type Should always be set to 0 "wake up on character"	0	Character	•									
1220	Serial Port Type	0	RS-232	•									
		1	RS-485	•									
1221	Serial Handshaking	0	None	•									
		1	Hardware RTS	•									
1222	P1 Xdcr Alarm Time	00 00 00		•									
1223	P1 Xdcr Alarm Date	01 01 01		•									
1224	P2 Xdcr Alarm Time	00 00 00		•									
1225	P2 Xdcr Alarm Date	01 01 01		•									
1228	Modbus Map Integer Mapping Enable	0	No	•									
		1	Yes										
1229	Modbus Map Long Mapping Enable	0	No	•									
		1	Yes	•									
1230	Call In Sequence	0	Priority	•									
		1	Both	•									
1231	Call out Start Time 1 First call out window starts at this time of day. (Seconds)	00 00 00		•									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	field is ignored – can only schedule it in minutes.)												
1232	Call out Stop Time 1 First call out window ends at this time of day. This call out window disabled if Stop Time equals Start Time.	00 00 00		•									
1233	Call out Start Time 2 Second call out window starts at this time of day.	00 00 00		•									
1234	Call out Stop Time 2 Second call out window ends at this time of day. This call out window disabled if Stop Time equals Start Time	00 00 00		•									
1236	Port Active during Call Out Window Enable RS232/485 port will be active during a call out window so incoming characters are missed. Only needed for Modbus (not MI Protocol). Consumes more battery power.	0	OFF	•									
		1	ON	•									
1237	Super Calc Alarm Time	00 00 00		•									
1238	Super Calc Alarm Date	01 01 01		•									
1239	Meteorological Config Mode Enable control for entering mode for making “Metrological configuration” Item changes. Mainly applies to User who desire MID compliance – Item 1340 enabled.	0	No	•									
		1	Yes	•									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
1240 - 1279	Modbus Map Short 3000 Item - 3039 Item Modbus Short Integer Mapping Items for Register range 3000 - 3039	255		•									
1280 - 1319	Modbus Map Long 5000 Item - 5039 Item	255		•									
1320	Extern Supply Alarm Value – Value of External supply voltage when a low external voltage alarm first occurs for item 796	6.00		•									
1321	Amr Out Tsk Counter (Honeywell Diagnostics)	0		•									
1322	Volume Tsk Counter (Honeywell Diagnostics)	0		•									
1323	Alarm Rec Seq Number (Honeywell Diagnostics)	0											
1324	Cmos Port Tsk Counter (Honeywell Diagnostics)	0		•									
1325	Flash Write Tsk Counter (Honeywell Diagnostics)	0		•									
1326	Flash Erase Tsk Counter (Honeywell Diagnostics)	0		•									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
1327	Modbus Tsk Counter (Honeywell Diagnostics)	0		.									
1328	Measure Tsk Counter (Honeywell Diagnostics)	0		.									
1329	Cyclic Tsk Counter (Honeywell Diagnostics)	0		.									
1330	Irda Tsk Counter (Honeywell Diagnostics)	0		.									
1331	Mi Protocol Tsk Counter (Honeywell Diagnostics)	0		.									
1332	Clock Fix Counter (Honeywell Diagnostics)	0		.									
1333	Watchdog Reset Counter (Honeywell Diagnostics)	0		.									
1334	Pwr Cycle Reset Counter (Honeywell Diagnostics)	0		.									
1335	Temperature Probe Alarms Multiple bit-mapped temperature probe malfunction conditions.	0		.									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
1336	Temp Probe Alarm Time	00 00 00		•									
1337	Temp Probe Alarm Date	01 01 01		•									
1338	Metrological Sealed Item CRC Integrity Checksum of all Metrological 'Sealed' Configuration Items.	0		•									
1339	Metrological Event Item CRC Integrity Checksum of all Metrological 'Event Logged' Configuration Items.	0		•									
1340	Error Volume Enable Controls whether to redirect volume under error conditions to separate items. MID compliance Users should generally enable this Item. It enables Volume redirection to 'Error' registers when Instrument is a Metrological fault condition.	0	No	•									
		1	Yes (enable use of Error Volume registers)	•									
1341 - 1345	Log 1 Sectors Used – Log 5 Sectors Used (Honeywell Diagnostics)	0		•									
1346 - 1350	Log 1 Sectors Erasing – Log 5 Sectors Erasing (Honeywell Diagnostics)	0		•									
1351 - 1355	Log 1 Sectors Erased – Log 5 Sectors Erased (Honeywell Diagnostics)	0		•									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
1356 - 1360	Log 1 Sectors Erasable – Log 5 Sectors Erasable (Honeywell Diagnostics)	0		.									
1361 - 1365	Log 1 Sectors Total- Log 5 Sectors Total (Honeywell Diagnostics)	0		.									
1366	Log Sectors Total (Honeywell Diagnostics)	0		.									
1367	Log Read Error Count (Honeywell Diagnostics)	0		.									
1368	Log CRC Error Count (Honeywell Diagnostics)	0		.									
1369	Log Erase Error Count (Honeywell Diagnostics)	0		.									
1370	Sec Assign Tab Addr (Honeywell Diagnostics)	0		.									
1371	Sec Assign Tab Elem Cnt (Honeywell Diagnostics)	0		.									
1372	Sec Assign Tab Elem Size (Honeywell Diagnostics)	0		.									
1373	Log Table Address	0		.									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	(Honeywell Diagnostics)												
1374	Log Table Element Cnt (Honeywell Diagnostics)	0		•									
1375	Log Table Element Size (Honeywell Diagnostics)	0		•									
1378	Corrected Error Vol CorVol accumulated under Metrological Error conditions – if Item 1340 is enabled.	0		•									
1379	Uncorrected Error Vol UncVol accumulated under Metrological Error conditions – if Item 1340 is enabled.	0		•									
1384	Forward Cor Error Vol Forward CorVol accumulated under Metrological Error conditions – if Item 1340 is enabled and in Bidirectional mode.	0		•									
1385	Reverse Cor Error Vol Reverse CorVol accumulated under Metrological Error conditions – if Item 1340 is enabled and in Bidirectional mode.	0		•									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
1386	Forward Unc Error Vol Forward UncVol accumulated under Metrological Error conditions – if Item 1340 is enabled and in Bidirectional mode.	0		•									
1387	Reverse Unc Error Vol Reverse UncVol accumulated under Metrological Error conditions – if Item 1340 is enabled and in Bidirectional mode.	0		•									
1388	Comms Login Alarm Activated when a wrong passcode is entered when attempting to connect through IRDA, RS-232, or RS-485 (requires 3 consecutive failed attempts).	0 / 1	No / Yes	•									
1389	Comms Login Failure Count Count of Serial / IrDA Access denials (due to passcode)	0		•									
1390	Comms Login Alarm Time Time of Serial / IrDA Access denials (due to passcode)	00 00 00		•									
1391	Comms Login Alarm Date Date of Serial / IrDA Access denials (due to passcode)	01 01 01		•									
1392	HMI Login Alarm	0	No / Yes	•									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Alarm is activated when a wrong HMI passcode is entered. (requires 3 consecutive failed attempts).												
1393	HMI Login Failure Count Count of HMI Access denials (due to passcode)	0		•									
1394	HMI Login Alarm Time Time of HMI Access denials (due to passcode)	00 00 00		•									
1395	HMI Login Alarm Date Date of HMI Access denials (due to passcode)	01 01 01		•									
1396	Alarm Mask Mask out any of the 'Alarm' conditions (bit coded)	12288		•									
1397	Compress Z Base Compressibility factor at base conditions Zb .	1.0		•									
1398	Compress Z Flow Compressibility factor at flowing conditions Zf .	1.0		•									
1399	Metrological Config Chng Alarm Time Time of Alarm condition	00 00 00		•									
1400	Metrological Config Chng Alarm Date Date of Alarm condition	01 01 01		•									
1405	Serial Comms Format	0	8 / N / 1	•									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	Data Bits / Parity / Stop Bits used for Serial comms ports. Mainly applies to MODBUS (not Mi Protocol).	1	7 / E / 1	•									
		2	7 / O / 1	•									
		3	8 / E / 1	•									
		4	8 / O / 1	•									
1406	Dial Cmd Response Timeout Configurable time period to wait for modem to respond back to ATDT dial command string (i.e. wait for connect). Suggested range limits: 60 – 120 seconds. Max 120 seconds.	90		•									
1409	Alarm Log Record Alarm	0 / 1	No / Yes	•									
1410	Event Log Record Alarm	0 / 1	No / Yes	•									
1411	Audit Log Record Alarm	0 / 1	No / Yes	•									
1412	Alarm Record Alarm Time (Honeywell Diagnostics)	00 00 00		•									
1413	Alarm Record Alarm Date (Honeywell Diagnostics)	01 01 01		•									
1414	Event Record Alarm Time (Honeywell Diagnostics)	00 00 00		•									
1415	Event Record Alarm Date (Honeywell Diagnostics)	01 01 01		•									

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#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
1416	Audit Record Alarm Time (Honeywell Diagnostics)	00 00 00		•									
1417	Audit Record Alarm Date (Honeywell Diagnostics)	01 01 01		•									
1418	EEPROM-0 Test Fail Cnt Count of number of errors found when EEPROM 0 memory test is run via 264 code. DESTRUCTIVE TEST. (Diagnostics)	0		•									
1419	EEPROM-1 Test Fail Cnt Count of number of errors found when EEPROM 1 memory test is run via 264 code. DESTRUCTIVE TEST. (Diagnostics)	0		•									
1420	FLASH-0 Test Fail Cnt Count of number of errors found when data flash 0 memory test is run via 264 code. DESTRUCTIVE TEST. (Diagnostics)	0		•									
1421	FLASH-1 Test Fail Cnt Count of number of errors found when data flash 1 memory test is run via 264 code. DESTRUCTIVE TEST. (Diagnostics)	0		•									
1422	FLASH-2 Test Fail Cnt Count of number of errors found when data flash 2 memory test is run via 264 code. DESTRUCTIVE TEST. (Diagnostics)	0		•									

Mercury Instruments Item Reference Guide

#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
1423	FLASH-3 Test Fail Cnt Count of number of errors found when data flash 3 memory test is run via 264 code. DESTRUCTIVE TEST. (Diagnostics)	0		•									
1424	Vol Sensor-3 Alarm Digital input Sensor-3 fault alarm.	0 / 1	No / Yes	•									
1425	Vol Sensor-4 Alarm Digital input Sensor-4 fault alarm.	0 / 1	No / Yes	•									
1426	Vol Sensor-3 Alarm Time Digital input Sensor-3 fault alarm time.	00 00 00		•									
1427	Vol Sensor-3 Alarm Date Digital input Sensor-3 fault alarm date.	01 01 01		•									
1428	Vol Sensor-4 Alarm Time Digital input Sensor-4 fault alarm time.	00 00 00		•									
1429	Vol Sensor-4 Alarm Date Digital input Sensor-4 fault alarm date.	01 01 01		•									
1430	Bi-Directional Errors Bi-directional flow measurement error status. (Honeywell Diagnostics)	0	No Errors	•									
		16	SW1 Fault	•									
		32	SW2 Fault	•									
		64	SW3 Fault	•									

Mercury Instruments Item Reference Guide

#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		128	SW4 Fault	•									
1432	AT Allocate Start Time Start time of most recent audit trail log reallocation. (Honeywell Diagnostics)	00 00 00		•									
1433	AT Allocate Start Date Start date of most recent audit trail log reallocation. (Honeywell Diagnostics)	01 01 01		•									
1434	AT Allocate End Time End time of most recent audit trail log reallocation. (Honeywell Diagnostics)	00 00 00		•									
1435	AT Allocate End Date End time of most recent audit trail log reallocation. (Honeywell Diagnostics)	01 01 01		•									
1436	RTOS Intrp Return Sum (Honeywell Diagnostics)	0		•									
1437	RTOS Return Sum (Honeywell Diagnostics)	0		•									
1438	RTOS Messages Free (Honeywell Diagnostics)	20		•									

Mercury Instruments Item Reference Guide

#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
1439	RTOS Pipe Slots Free (Honeywell Diagnostics)	0		•									
1440	RTOS Msg Overflow Reset Counts (Honeywell Diagnostics)	0		•									
1441	RTOS Mbx0 Msg Count (Honeywell Diagnostics)	0		•									
1442	RTOS Mbx1 Msg Count (Honeywell Diagnostics)	0		•									
1443	RTOS Mbx2 Msg Cnt (Honeywell Diagnostics)	0		•									
1444	RTOS Min Free Msgs (Honeywell Diagnostics)	255		•									
1445	Erase Supnd Fail Count (Honeywell Diagnostics)	0		•									
1446	Mi Protocol PC (Honeywell Diagnostics)	0		•									
1447	MB Protocol PC (Honeywell Diagnostics)	0		•									
1448	Call-In PC	0		•									

Mercury Instruments Item Reference Guide

#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
	(Honeywell Diagnostics)												
1449	Call-Out PC (Honeywell Diagnostics)	0		•									
1450	RTOS Mbx0 Msg Cnt Save (Honeywell Diagnostics)	0		•									
1451	RTOS Mbx1 Msg Cnt Save (Honeywell Diagnostics)	0		•									
1452	RTOS Mbx2 Msg Cnt Save (Honeywell Diagnostics)	0		•									
1453	MI Protocol PC Save (Honeywell Diagnostics)	0		•									
1454	MB Protocol PC Save (Honeywell Diagnostics)	0		•									
1455	Call In Task PC Save (Honeywell Diagnostics)	0		•									
1456	Call Out Task PC Save (Honeywell Diagnostics)	0		•									
1457	Fixed Unsquared SuperFactor Fixed factor value for Supercompressability (fixed mode)	1.0		•									

Mercury Instruments Item Reference Guide

#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board	
1458	Modem Type Selects which Modem is used for communications. Must be properly selected to ensure full Modem type functionality (e.g. Modem Power Control, or Daily Vol Backup, etc.). Non-Mercury modems are 'third party' modems (e.g. Raven)	0	No Modem	•										
		1	CNI-2	•										
		2	CloudLink Modem	•										
		3	Messenger	•										
		4	Non-Mercury Modems	•										
1459	CloudLink Register Errors Total (Honeywell Diagnostics)	0		•										
1460	CloudLink Last Error – Register (Honeywell Diagnostics)	3000		•										
1461	CloudLink Last Error – Code (Honeywell Diagnostics)	0		•										
1462	CloudLink Super Cap Charge Limit (Honeywell Diagnostics)	0		•										
1463	Backup Volume Alarm Limit	00000000		•										
1464	Tamper Alarm Time	00 00 00		•										
1465	Tamper Alarm Date	01 01 01		•										
1467	Firmware Download State	0	Idle	•										

Mercury Instruments Item Reference Guide

#	Item Name	Code or Default Value	Options (if applicable)	EC350	Mini-AT	Mini-Max	AccuTest	TurboCor	TurboMon	PulseAcc	TCI	ERX	PT Board
		1 2 3 4 5	Sleeping FW loading Load complete Validating FW Load Error										
1468	Firmware Download Packet Size	1024		•									
1469	Last FW Download Sequence Number	1		•									
1470	Downloading Firmware Version	-		•									
1500 - 1539	Modbus Map Bool 1000 – 1039 Item	255		•									

Mercury Instruments Item Reference Guide

CloudLink Item Reference:

#	Item Name	Item Description
3002	Cloud Link 4G Modem Serial Number	Cloud Link 4G Modem Serial Number
3003	Cloud Link 4G Modem Manufacturing Date DD:MM:YYYY:	Cloud Link 4G Modem Manufacturing data
3004	Radio IMIE number	Radio identification number
3005	Change Battery	Reset Battery flag clears previously charge consumed data
3006	Advance Low Battery Indication (in days)	Advance Low Battery Indication (in days): Maximum allowed is 255 days and Min allowed is 15
3007	Battery Type	SINGLE_BATTERY_PACK DUAL_BATTERY_PACK QUAD_BATTERY_PACK ONE_BATT_ONE_SC_SEPARATE EXT_PS_SINGLE_BATT_PACK EXT_PS_DUAL_BATT_PACK EXT_PS_ONLY NO_SUFFICIENT_SUPPLY
3008	Battery Charge Capacity	Battery Charge Capacity: is based on battery type
3009	Super Cap Low voltage to drop the call	Super cap voltage reading

Mercury Instruments Item Reference Guide

#	Item Name	Item Description
3010	Battery Voltage Critically low Threshold	Battery critically low Threshold value
3011	Available % battery life	Percentage battery life
3012	Super Cap Charge Availability (in sec)	Super cap voltage in seconds
3013	Battery Voltage	Battery voltage
3014	Supercap Voltage	Super cap voltage
3015	Battery Charge Consumed	Battery Charge Consumed
3016	Fetch radio parameters	0 - Disable 1 - Enable
3017	SSL enable / Disable	0 - Disable 1 - Enable
	Security - keys	
	Security Signed Certificate	
	Security - CA Certificate	
3018	IPSec enable / disable	0 - Disable 1 - Enable
	Security - keys	
	Security Signed Certificate	
	Security - CA Certificate	
	User Log in ID	User Log in ID: admin

Mercury Instruments Item Reference Guide

#	Item Name	Item Description
	User Log in Password	Password: Default : 123456
	User Log in ID	User Log in ID: admin
	User Log in Password	Password: Default : 123456
3019	IP Security Cert Expiry Status	0 - Valid 1 -Expired
3020	SSL Security Cert Expiry Status	0 - Valid 1 -Expired
3021	Mobile or Simple Internet Protocol	0 = Simple Internet Protocol (SIP)
		1 = Mobile Internet Protocol (MIP)
3022	Packet Service Connection Command	This command initiates a packet (internet) connection This can be different for different cellular providers, but generally the universally-accepted string is"ATD*99#"
3023	Access Point Name	This is the name of the gateway to the service provider's internet service. Examples: m2m@T-Mobile.com or isp.singular
3024	PAP / CHAP Enable	0 = None
		1= PAP only
		2 = CHAP only
		3 = CHAP first and then PAP as a fallback if CHAP fails.
3025	PAP / CHAP User Nam	

Mercury Instruments Item Reference Guide

#	Item Name	Item Description
3026	PAP / CHAP Pass Word	
3027	SIM PIN Number	A numeric string (ex: "54311") that protects the SIM card from being used by unauthorized persons.
3028	Cellular Session Timeout	10 sec - 300 sec
3029	SIM Number	
3030	Mobile Directory Number	
3031	Carrier Name	Mobile Carrier name
3032	Internet Protocol Version 4 or 6 (IPv4 or IPv6)	0 = IPv4
		1 = IPv6
3033	Source Port Starting Number	
3034	Source Port Ending Number	
3035	Maximum TCP/IP packet size	This defines the maximum data portion of the TCP/IP packet, which is usually referred to as the Maximum Segment Size, or MSS. Maximum is 65535 bytes. Legacy Ethernet v2 segment sizes were limited to about 1460 bytes.

Mercury Instruments Item Reference Guide

#	Item Name	Item Description
3036	DNS or IP address	This parameter is to select IP address / DNS name
		0- IP address
		1- DNS
3037	Primary Destination IP Address (Client Mode) (Can be IPv4 or IPv6 address)	ASCII form size based on IPv4 or IPv6 address
3038	Primary Destination Port Number (Client Mode).	Destination port number
3039	Alternate Destination IP Address (Client Mode)	ASCII form size based on IPv4 or IPv6 address
3040	Alternate Destination Port Number (Client Mode)	Alternate destination port number
3041	Domain Name Server (DNS) #1	URL of DNS1
3042	Domain Name Server (DNS) #2	URL of DNS2
3043	Domain Name Server (DNS) #3	URL of DNS3
3044	Server Mode Friends (White) List Enable	0 - Disable
		1 - Enable

Mercury Instruments Item Reference Guide

#	Item Name	Item Description
3045-3054	Server Mode Friends (White) List(10 IP address)	Server White list IP addresses 1 - 10
3055	Device Wakeup time	Device wakeup time after receiving AT commands
3056	Number of total Items	Total number of Cloud Link 4G Modem item codes
3057	MI session timeout	BLE session timeout for both Cloud Link 4G Modem & EVC connection
3058	Last call / Known Signal Strength	Last call known signal strength
3059	Last Known Source IP Address	Last call IP address
3060	Last Known Source Port	Last call IP Port
3061	Modem server timeout	Server mode timeout
3062	Modem Firmware Version	
3063	Radio Modem model	
3064	Select communication port to EVC	
3065	RS-232 / RS-485 Serial Port Baud Rate	
3066	CMOS Serial Port Baud Rate	
3067	RS-232 Serial Port Flow Control	
3068	CMOS Serial Port Flow Control	

Mercury Instruments Item Reference Guide

#	Item Name	Item Description
3069	BLE Baud Enable	
3070	Include Baud in CONNECT Message	
3071	Always RING Port	
3072	Use Non-Verbose (Numeric) Response Codes	
3073	Serial Port Delay Before Sending Packet	
3074	Verizon Dynamic IP SIM startup delay	Required when the SIM is changed.
3075	RS485 enable	
3076	BLE MAC Address	
3077	BLE Device Name	
3078	Advertisement interval(in msec)	
3079	BLE Module Status	
3080	BLE firmware version	
3081	BLE stack version	
3082	BLE forget all bonds	
3083	BLE host White List Enable	0 - Disable 1 - Enable

Mercury Instruments Item Reference Guide

#	Item Name	Item Description
3084	BLE Last RSSI	
3085	BLE Security type	1-Just works 2- Passkey entry
3086-3093	BLE white list	
3112	BLE conn interval	Advertisement interval max : data value in mSec
3094	Cloud Link 4G Modem Mode	Integrated Mode - 0 Standalone Mode - 1
3095	Remote Unit ID (RUID)	Default Value : 000001
3096	Running / Existing Firmware Version	Cloud Link 4G Modem firmware revision
3097	Running Firmware CRC checksum	Cloud Link 4G Modem firmware checksum
3098	Down Loading Firmware Version	
3099	Firmware upgrade max packet size	
3100	Firmware image max size allowed	
3101	Coordinated Universal Time (UTC)	When the Cloud Link 4G Modem receives a time and date, it is relative to Coordinated Universal Time (UTC), which is essentially the same thing as Greenwich Mean Time (GMT).
3102	Date format type	0 = MM_DD_YY

Mercury Instruments Item Reference Guide

#	Item Name	Item Description
		1 = DD_MM_YY
		2 = YY_MM_DD
3103	Cloud Link 4G Modem Bootloader version	
3104	Cloud Link 4G Modem Bootloader CRC	
3105	Immediate Call on Low-Battery Condition Enable	
3106	Immediate Call on Alarm Active Enable	
3107	Immediate call on for wrong login failure	
3108	Date	
3109	Time	
3110	Server mode IP address	
3111	Server mode IP port number	
3113	Pulse count	
3114	Cloud Link 4G Modem board temperature	
3115	Cloud Link 4G Modem Configuration Change Event	

Mercury Instruments Item Reference Guide

#	Item Name	Item Description
3116	Cloud Link 4G Modem Firmware Upgrade Event	
3117	Cloud Link 4G Modem Password Change Event	Password credential change
3118	Cloud Link 4G Modem POR counter	Cloud Link 4G Modem power on reset count Event
3119	Login Failure Event	Cloud Link 4G Modem login failure Event
3120	Low Battery Alarm Event	0 - Not Active
		1 - Active
3121	Emergency Callin Alarm Event	0 - Not Active
		1 - Active
3122	BLE transmit power	BLE transmit power
3123	BLE enable	BLE enable
3124	Last call Cellular service	Last call Cellular service
3125	Last call cellid	Last call Cellular ID

Mercury Instruments Item Reference Guide

#	Item Name	Item Description
3126	Last cal Loc ID	Last call location identifier
3127	Last cal RSCP	Last call RSCP(3G)
3128	Last cal RSRQ	Last cal RSRQ(4G)
3129	Last cal MCC	Last cal MCC
3130	Last cal RSRQ	Last cal RSRQ
3131	Last cal Physical cell id	Last call physical cell id
3132	Last call Cellular RSRP	Last call Cellular RSRP
3133	Last call Cellular TAC	Last call cellular TAC
3134	Last call duration	Last successful call duration
3135	Last call status	Last call status
3136	Pulse count enable	Pulse count enable
3137	Restore/Reset/Clear logs	Misc Item Action Input
3138	Modem server timeout	
3139	Remote Unit ID 2 (RUID)	
3140	Temperature units	
3141	BLE number of bonds	

Mercury Instruments Item Reference Guide

#	Item Name	Item Description
3142	MIWireless Enable	0 = for 350 (default)
		1 = MiWiress
		(When this item number is changed, the instrument must be restarted)
3143	BLE start time	
3144	BLE stop time	
3148	Cloud Link 4G Modem model number	
3149	PWA serial number	
3150	PWA revision number	
3151	IFT test result	
3152	FFT test result	
3153	Programming test result	
3154	EOL test result	
3155	FFT (Selective) Test Result	
3156	Last magnetic alarm time	
3157	Last battery alarm time	
3145	BLE Passkey	

Mercury Instruments Item Reference Guide

#	Item Name	Item Description
3146	External Voltage	
3147	Alarm Call Retries	
3158	Security certificate issue time	
3159	Security certificate expiry time	
3425	Factory test access number	Access code to enter into factory mode
3426	Factory test mode status	
3427	Factory test item number	FT_MODEM_POWER_ON= 1,
		FT_MODEM_POWER_OFF= 2,
		FT_SIM_TEST= 3,
		FT_SRAM_TEST= 4,
		FT_DATA_FLASH= 5,
		FT_OTA_FLASH= 6,
		FT_SUPER_CAP_VOLTAGE = 7,
		FT_BATTERY_VOLTAGE= 8,
		FT_EXT_POWER_VOLTAGE = 9,
		FT_MAGNETIC_SWITCH= 10,
FT_TEMPERATURE= 11,		

Mercury Instruments Item Reference Guide

#	Item Name	Item Description
		FT_BLE_MODULE= 12,
		FT_LED_TEST= 13,
		FT_SLEEP_TEST= 14,
		FT_MET_JUMPER= 16,
3428	Modem power ON Result	
3429	Modem power OFF Result	
3430	SIM test Result	
3431	BLE test Result	
3433	Test data flash Result	
3434	Test OTA flash Result	
3435	Test SRAM	
3436	Magnetic switch status	
3437	Metrology jumper status	

Misc. Information

Model	Pulser-A (Item 093)	Pulser-B (Item 094)	Pulser-C (Item 095)
Mini	0 or 3	N/A	N/A
EC	0, 1, 2 or, 3	0, 1, 2 or, 3	0, 1, 2 or, 3
ECAT	0, 1, 2, 3, or 4	0, 1, 2, 3, or 4	0, 1, 2, 3, or 4
Mini-AT	0, 1, 2, 3, or 4	0, 1, 2, 3, or 4	N/A
Mini-Max	0, 2, 3, or 4	0, 2, 3, or 4	N/A

Legend
0 Corrected Volume 1 Pressure Corrected Volume 2 Uncorrected Volume 3 No Output 4 Time (At the top of each hour)

Note: In the Mini, the mechanical reed switch (S3) located on the Meter Pulse Board, is the only means of providing an uncorrected volume pulse. This switch may be wired as Form-C (3-wires) or Form-A (2-wires). The value of each uncorrected pulse is determined by the meter drive rate (i.e. Unc. Vol. per meter rotation) which is usually the value configured into Item 098.

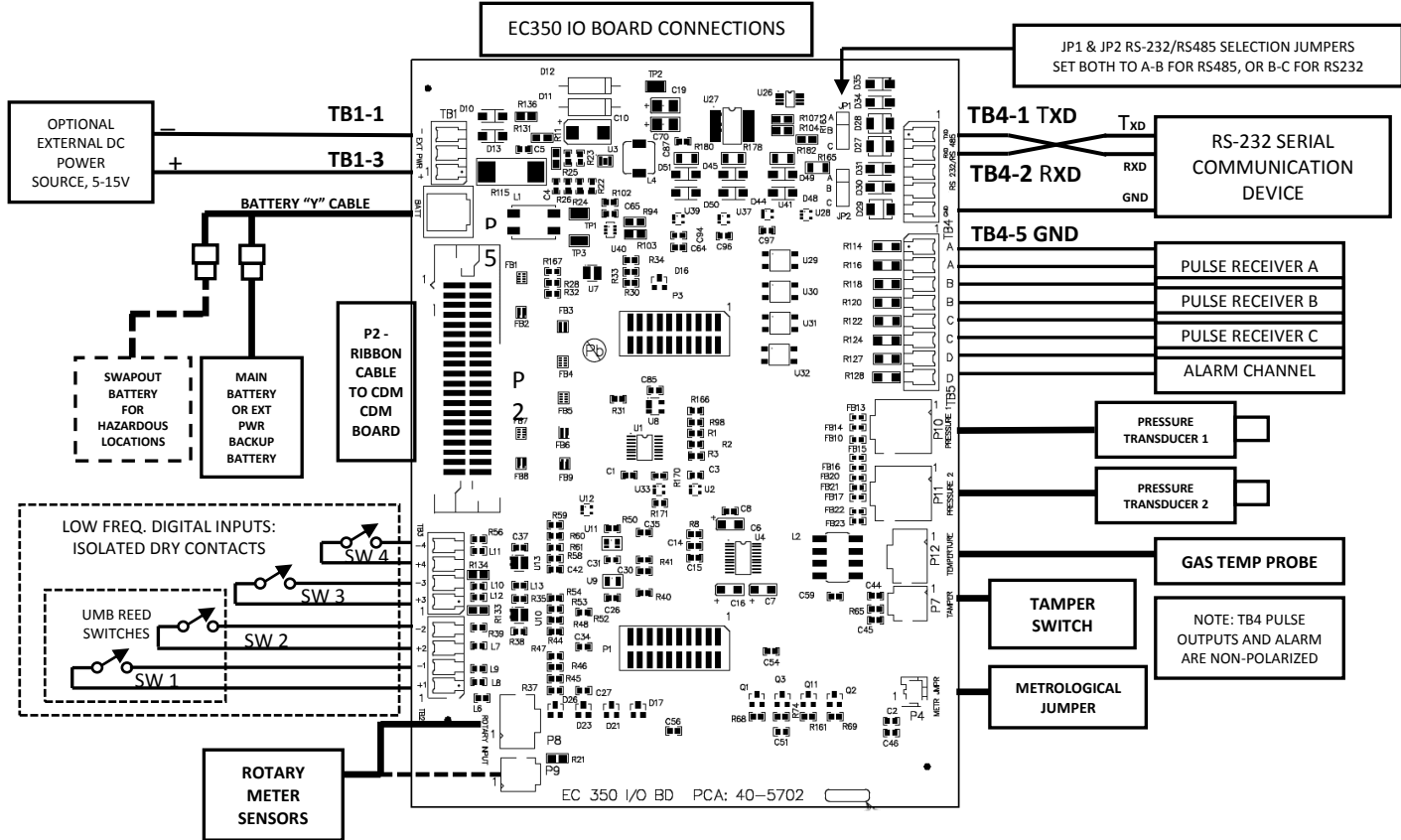
Mini	ECAT	Mini-AT	Mini-Max	Pulse Output Scaling Factors	
				Form-A (2-Wires)	
X	X	X	X	Channel-A Scaling (Item 056) \	
	X	X	X	Channel-B Scaling (Item 057) >	Scaling determined from table below
	X			Channel-C Scaling (Item 058) /	

		Pulse Output Value				
		CF	CFx10	CFx100 CCF	CFx1,000 MCF	CFx10,000 MCFx10
V O L T S	CF	2.0000	0.2000	0.0200	-----	-----
	CFx10	20.0000	2.0000	0.2000	0.0200	-----
	CFx100 CCF	200.0000	20.0000	2.0000	0.2000	0.0200
	CFx1,000 MCF	-----	200.0000	20.0000	2.0000	0.2000
	CFx10,000 MCFx10	-----	-----	200.0000	20.0000	2.0000

Mini	ECAT	Mini-AT	Mini-Max	Pulse Output Scaling Factors			
				Form-C (3-Wires)			
X	X	X	X	Channel-A Scaling (Item 056) \			
	X	X	X	Channel-B Scaling (Item 057) > Scaling determined from table below			
	X			Channel-C Scaling (Item 058) /			

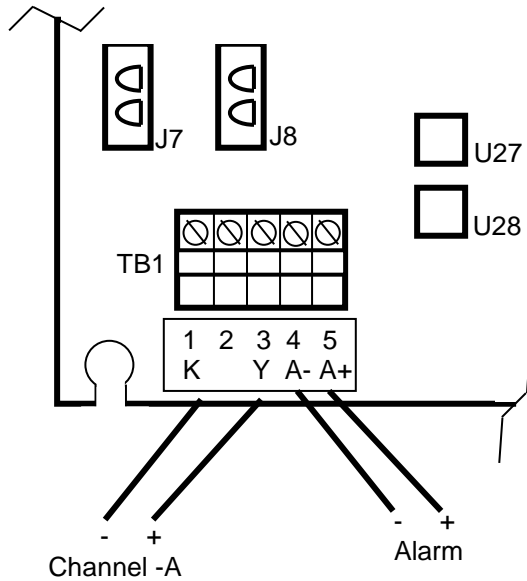
		Pulse Output Value				
		CF	CFx10	CFx100 CCF	CFx1,000 MCF	CFx10,000 MCFx10
V O L U N I T S	CF	1.0000	0.1000	0.0100	-----	-----
	CFx10	10.0000	1.0000	0.1000	0.0100	-----
	CFx100 CCF	100.0000	10.0000	1.0000	0.1000	0.0100
	CFx1,000 MCF	-----	100.0000	10.0000	1.0000	0.1000
	CFx10,000 MCFx10	-----	-----	100.0000	10.0000	1.0000

EC 350 FIELD WIRING - Connections to Input-Output Circuit Board (IOB)

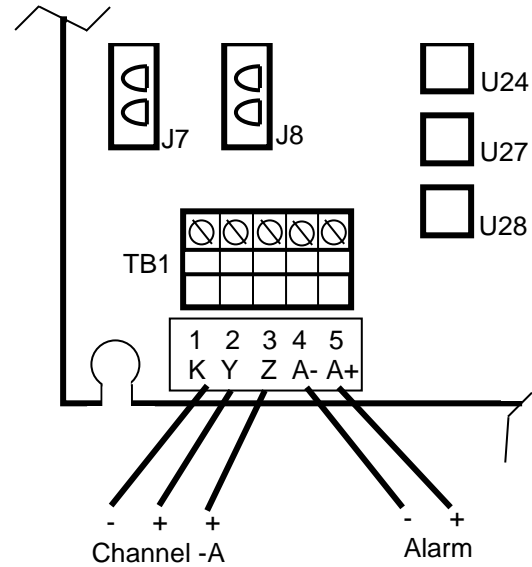


Mercor Mini Main Board (Lower left corner)

Form-A Board



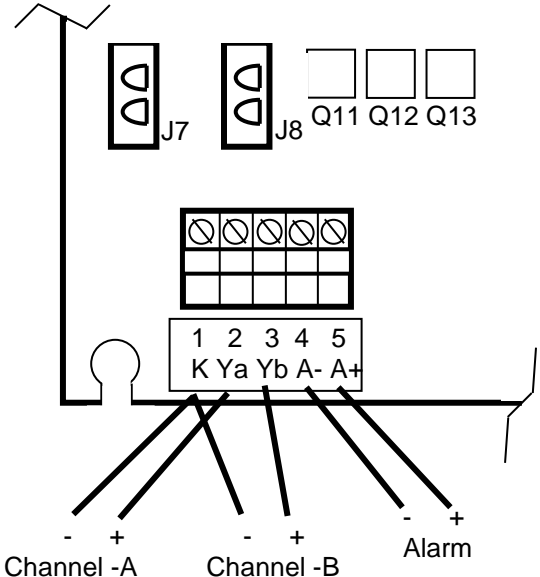
Form-C Board



Mini-AT Main Board (Lower left corner)

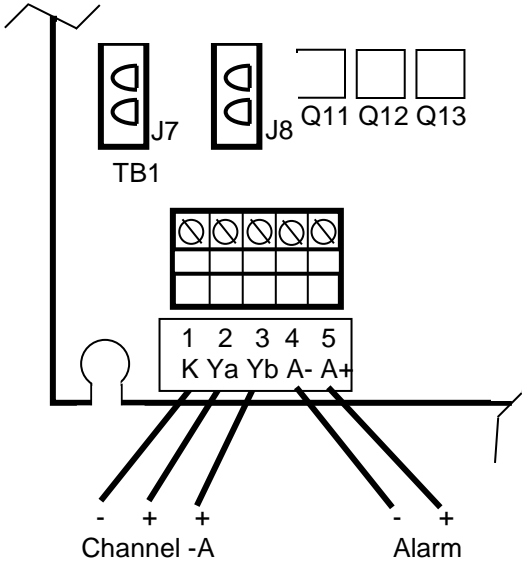
Form-A

(via on-board jumpers)



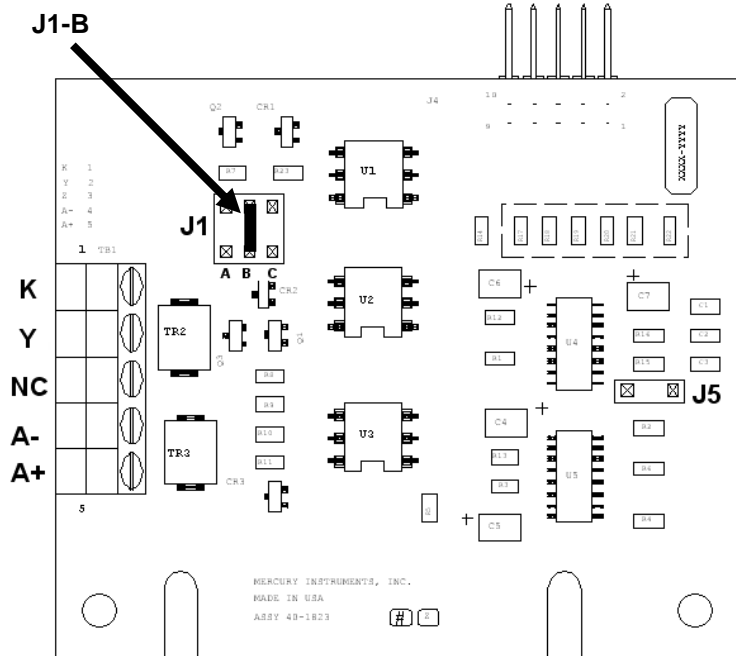
Form-C

(via on-board jumpers)



Single Pulse Alarm (SPA) Board p/n 40-1823-1

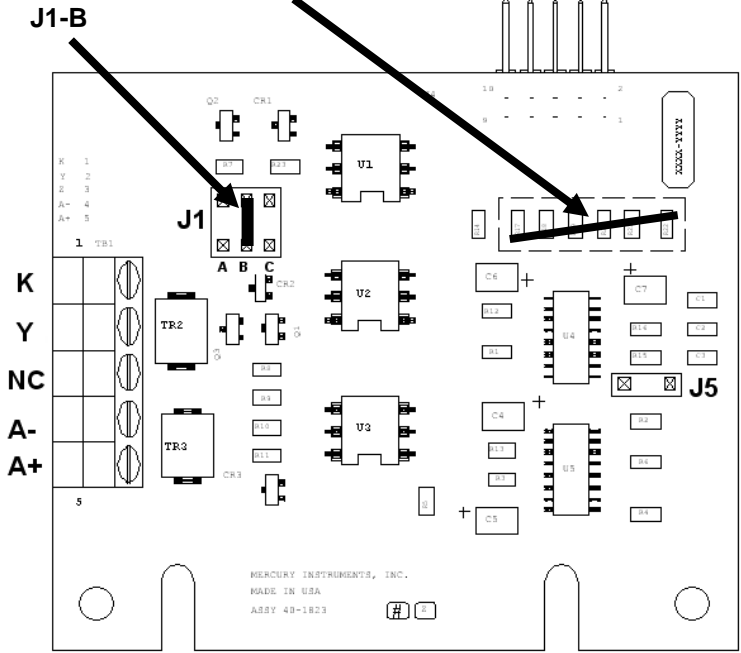
Mini Kit p/n 40-1875
 Mini-AT Kit p/n 40-2686
 ECAT Kit p/n 40-1876



Jumper Settings	
<p style="text-align: center;">Form-A</p> <p>Jumpers: Pulse Output (TB1): J1-B (only) K (-) Y (+)</p>	<p style="text-align: center;">Form-C</p> <p>Jumpers: Pulse Output (TB1): J1-A, J1-C & J5 K (-), Y (+) Z (+)</p>

SPA Board Variations

This jumper is installed on SPA-2X & DPO-2x boards only

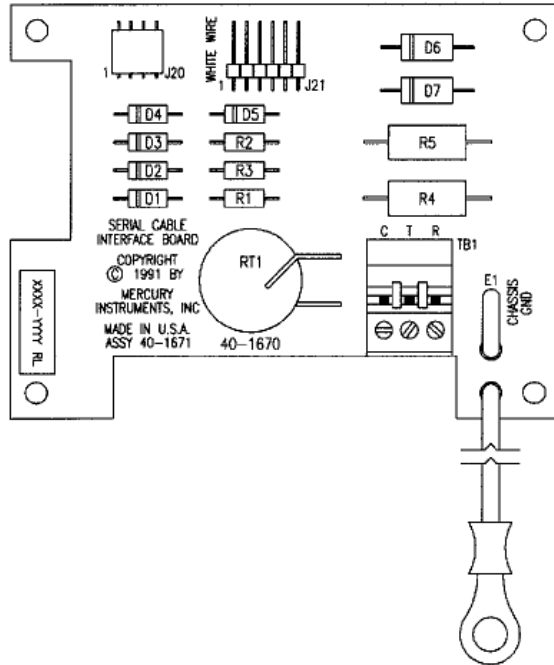


SPA-2X p/n 40-1823-5
 Mini Kit p/n 40-2253
 ECAT Kit p/n 40-2256
 Set Item 115 for **0.125** mSec or greater

SPA-250ms p/n 40-1823-6
 Mini Kit p/n 40-2254
 ECAT Kit p/n 40-2257
 Set Item 115 for **0.500** mSec or greater

DPO-2X p/n 40-1823-7
 Mini Kit p/n 40-2255
 ECAT Kit p/n 40-2258
 Set Item 115 for **0.125** mSec or greater

Serial Cable Interface (SCI) Board (ECAT) p/n 40-1671 & p/n (Mini) 40-2085

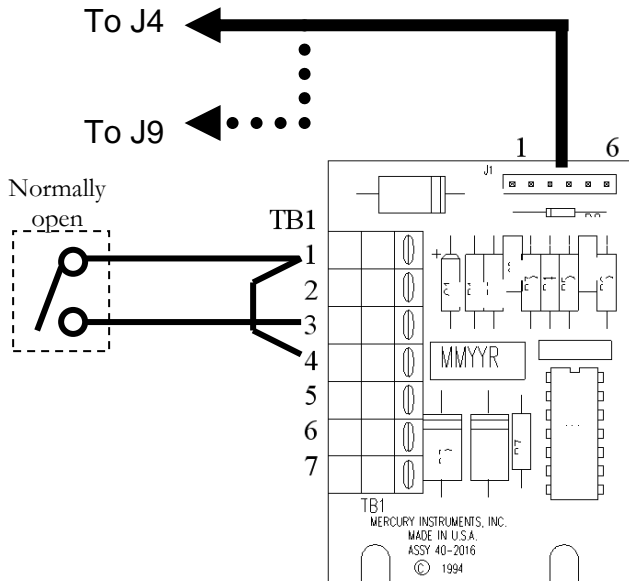


ECAT Kit p/n 40-8270
Mini Kit p/n 40-2075

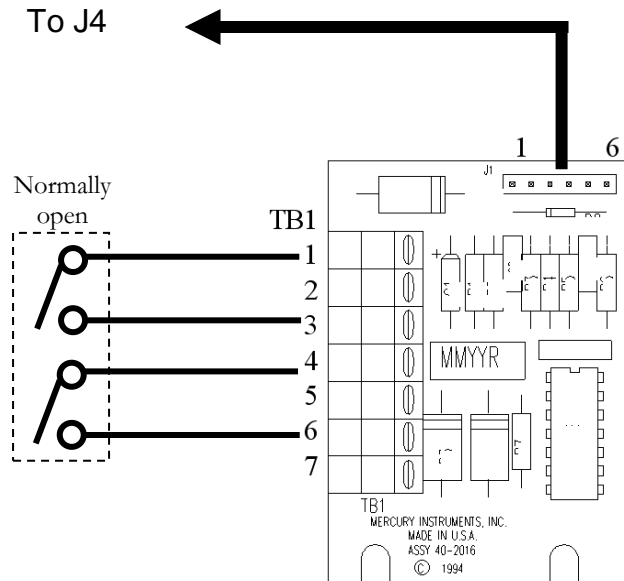
The SCI board provides signal conditioning and electrical surge protection to the main board's RS-232 circuits. The SCIB is generally used when connecting to an external modem or other serial device.

Remote Switch Input (RSI) Board for Mini and Mini-AT p/n 40-2016

Cables: Mini 40-1939 / Mini-AT 40-2550

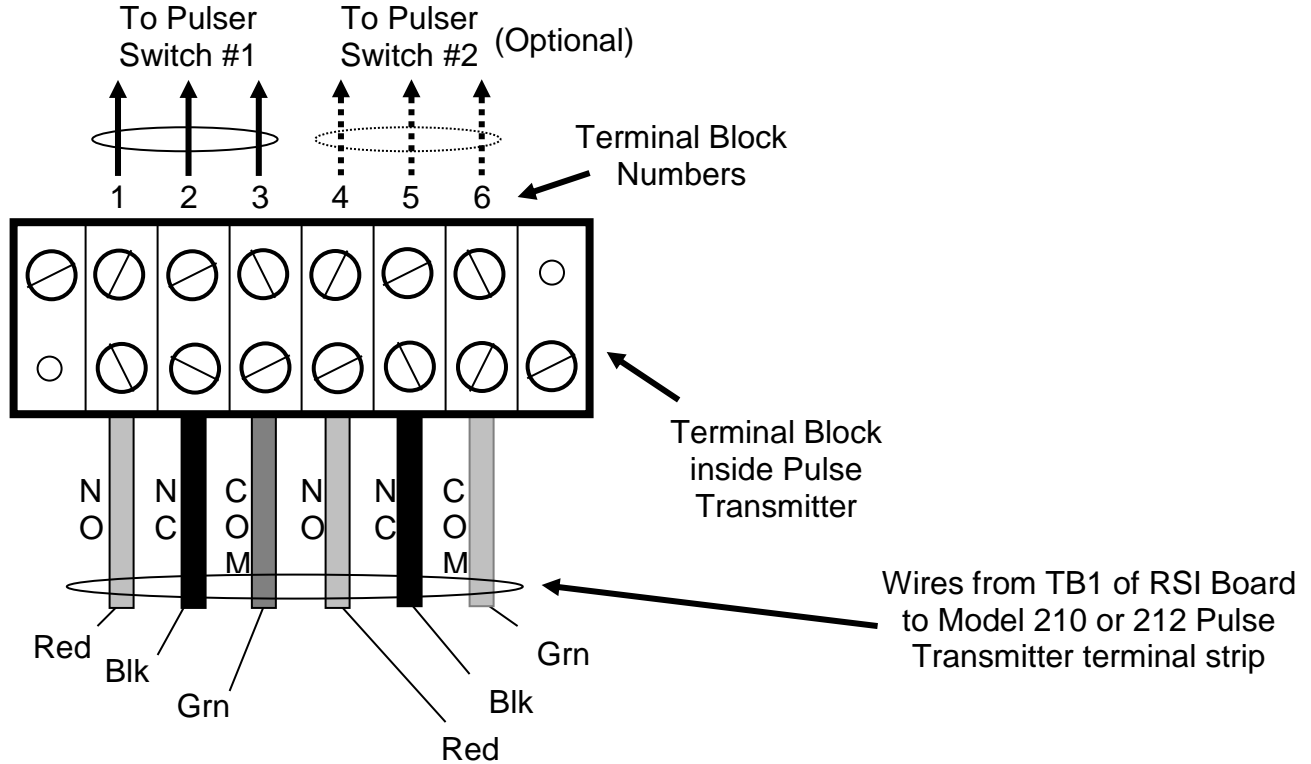


One-Switch Interface

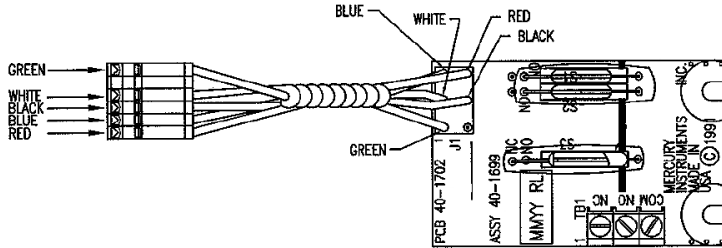


Two-Switch Interface

Model 210 / Model 212 Wiring to RSI Board

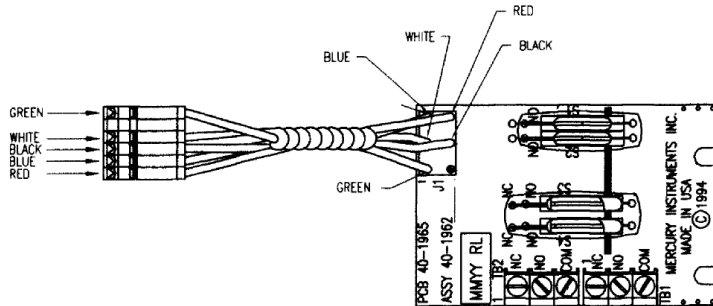


Mini and Mini-AT Input Switch Boards



Standard
Input Switch Board
p/n 40-1699-3
(One Mech. Output Switch)

To generate electronic uncorrected volume pulses for the main board, the magnet on the Magnet Disc Assembly actuates switches S1 and S2, once every meter revolution

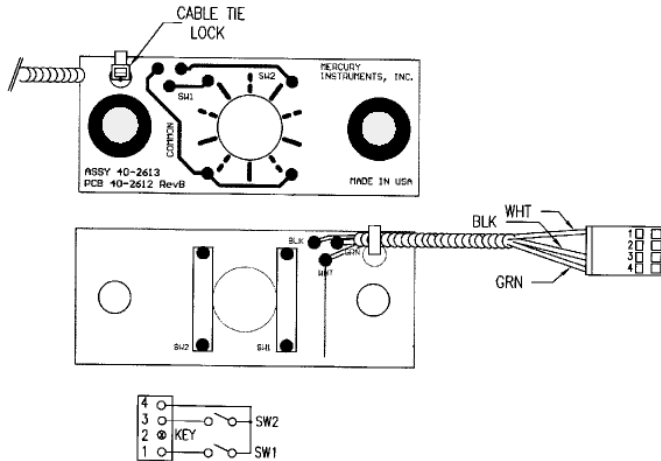


Special
Input Switch Board
p/n 40-1962
(Two Mech. Output Switches)

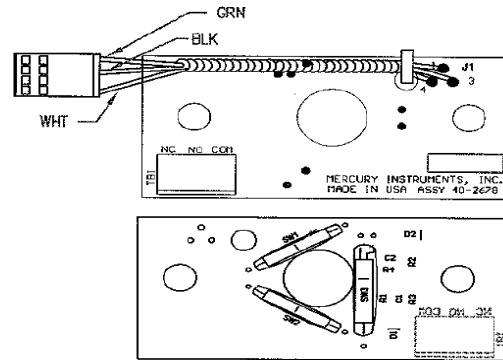
The same magnet also actuates switch S3 (and S4 if assembly 40-1962) which are Single-Pole Double-Throw (SPDT) switches and can be wired as either as Form-A or Form-C output. The volume per pulse is determined by the gas meter drive rate i.e., one uncorrected volume pulse is equal to the amount of gas flow for one output shaft revolution.

Mini-Max Input Switch Boards (Metal Case)

Standard
Input Switch Board
p/n 40-2613
(No Mech. Output Switch)

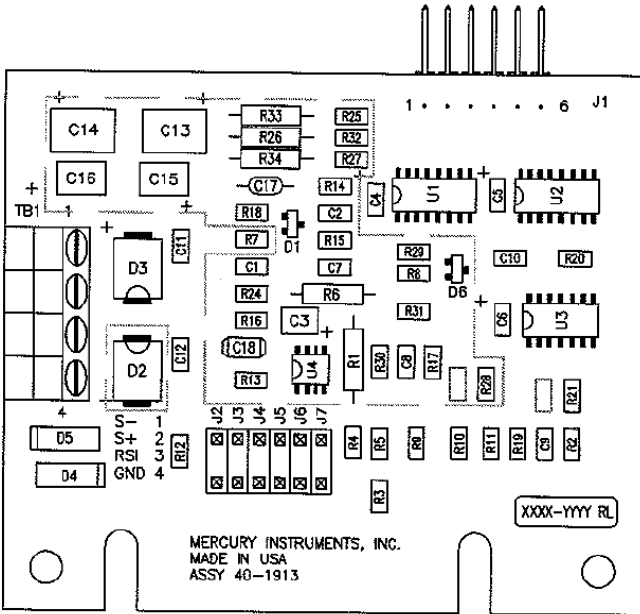


Special
Input Switch Board
p/n 40-2678-1
(One Mech. Output Switch)



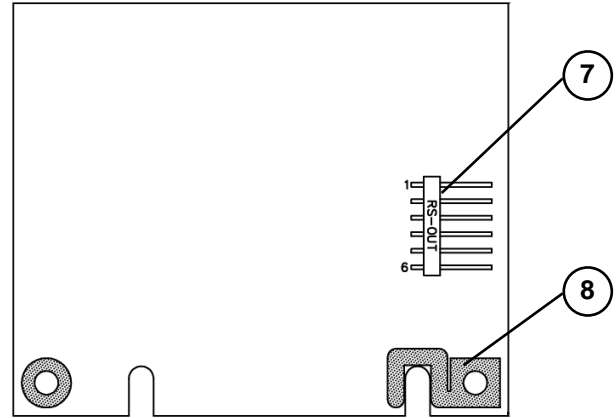
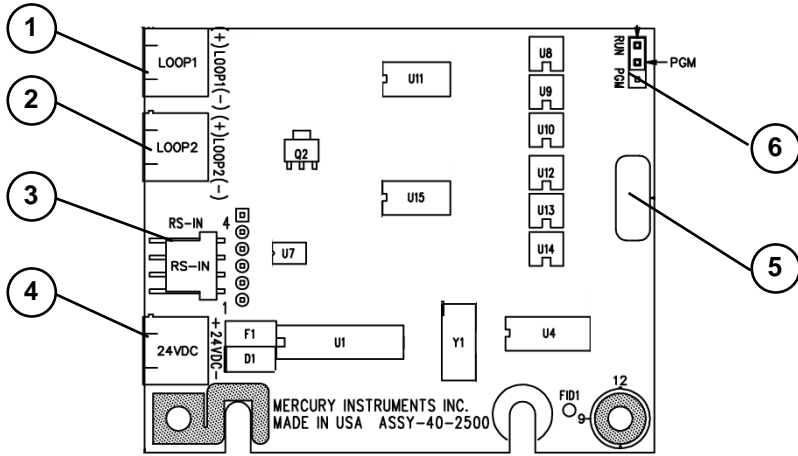
High Frequency Input (HFI) Board p/n 40-1913-x

There are seven (7) different board configurations available



Board #:	Where Used:	Connect to Terminals:
40-1913-1	Daniel 1" – 3" Turbine Meter	S- & S+
40-1913-2	Daniel 4" – 12" Turbine Meter	S- & S+
40-1916-3	Generic Open Collector Output	RSI & GND
40-1913-4	Instromet Ultrasonic Meter	S- & GND
40-1916-5	TRA 03 DN 10" G1600 Meter	S- & GND
40-1913-6	Equimeter T10HP Meter	S+ & GND
40-1913-7	Sick Maihak Ultrasonic Meter	S+ & GND

2-Channel, 4-20 mA Output Board p/n 40-2500



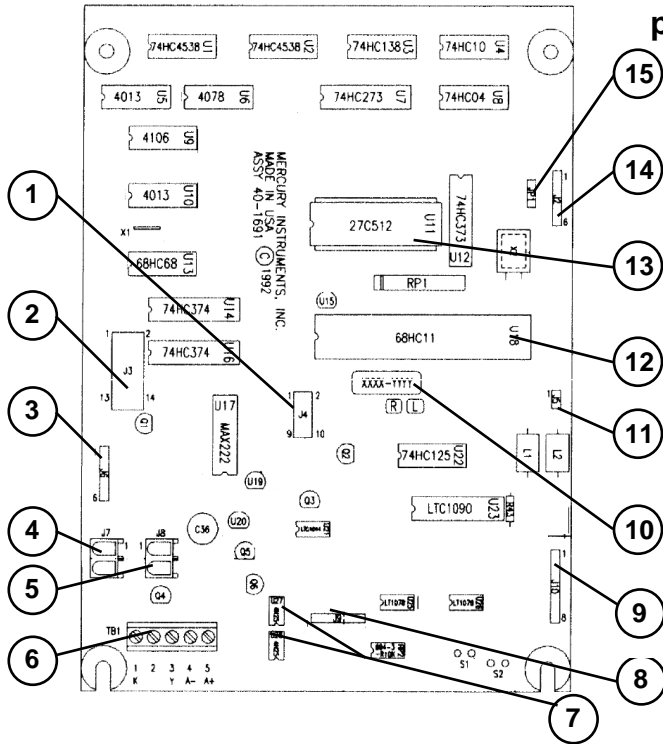
Front Side

- 1) Loop 1 – Connection for Loop-1 output.
- 2) Loop 2 – Connection for Loop-2 output.
- 3) RS IN – 4-pin header for RS-232 to mainboard
- 4) 24 VDC – Connection for external +24 volt DC power
- 5) Serial number label
- 6) RUN/PGM jumper for selecting mode of operation

Back Side

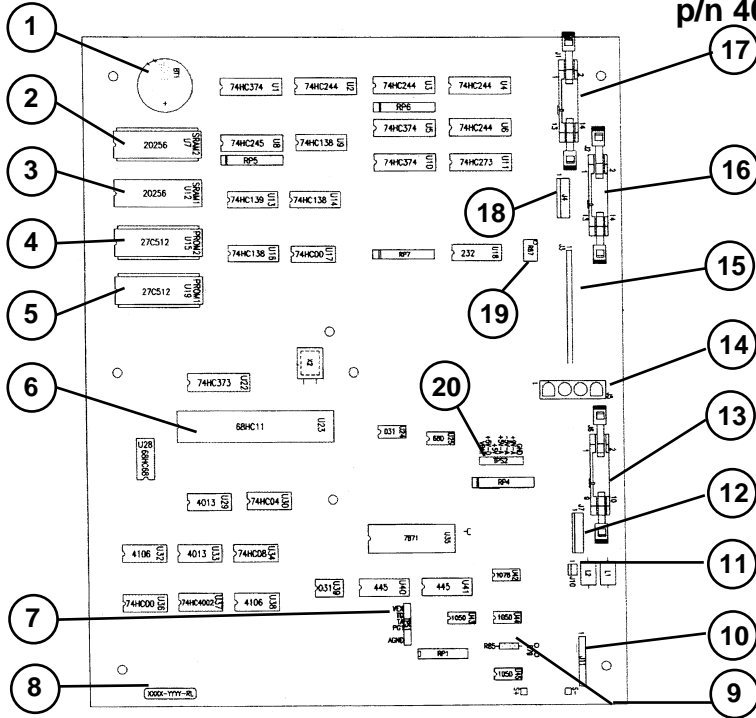
- 7) RS-Out – 6-pin header for serial interface to serial case connector
- 8) Foil – Identified so it may be used as a reference point when connecting the programming cable. When plugging in the programming cable, make the shield wire (clear insulator) closest to foil.

Mini Main Board p/n 40-1691



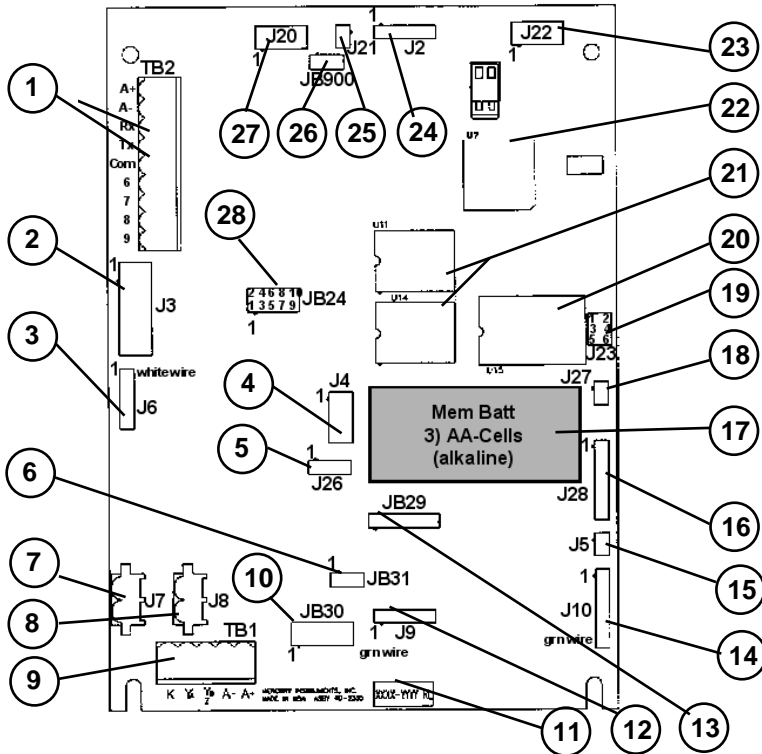
- 1) J4 – Conn for optional pulse output (SPA)
- 2) J3 – Conn for LCD ribbon cable
- 3) J6 – 6-pin header for RS-232 Serial Port
- 4) J7 – 1 of 2 Battery connections
- 5) J8 – 2 of 2 Battery connections
- 6) TB1 – CorVol Pulse Output connection
- 7) U27 & U28 – Opto-isolators for pulse output
- 8) J9 – 6-pin header for Input Switches
- 9) J10 – 8-pin header for Pressure Transducer
- 10) Serial number label
- 11) J5 – 2-pin header for Temperature Probe
- 12) ---- CPU (U18)
- 13) ---- EPROM (Firmware Chip)
- 14) J2 – 6-pin header for Field Calibrator
- 15) JP1 – 3-pin header for board Reset

ECAT Main Board p/n 40-1563



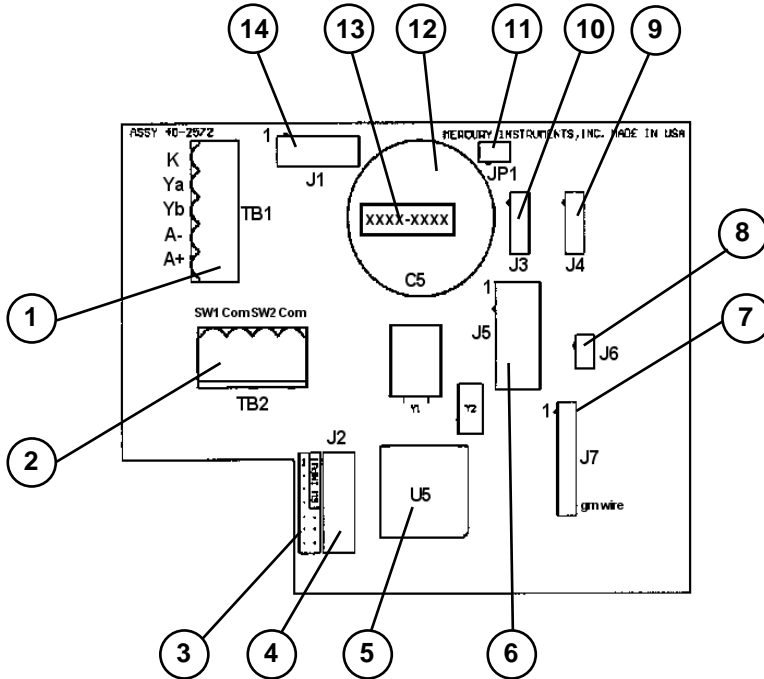
- 1) B1 – Memory Back-up Battery
- 2) ---- RAM memory #1 (in socket)
- 3) ---- RAM memory #2 (soldered)
- 4) ---- Code EPROM, Upper Firmware (in socket)
- 5) ---- Code EPROM, Lower Firmware (in socket)
- 6) ---- CPU
- 7) TPS1 – Test Points (Analog voltages)
- 8) ---- Serial number label
- 9) R85 – Gain Resistor for pressure transducer
- 10) J11 – 8-pin header for Pressure Transducer
- 11) J8 – 2-pin header for Temperature Probe
- 12) J7 – 6-pin header for UncVol Input Switches
- 13) J6 – Connector for Pulse Output ribbon cable
- 14) J5 – Connector, main power from batteries
- 15) J3 – 19-pin header for Keypad ribbon cable
- 16) J2 – Connector for Alpha-numeric LCD board
- 17) J1 – Connector for Numeric LCD board
- 18) J4 – 6-pin header for RS-232 Serial Port
- 19) R87 – Contrast control for Alpha-numeric LCD
- 20) TPS2 – Test Points (Power Supply)

Mini-AT Main Board p/n 40-2335



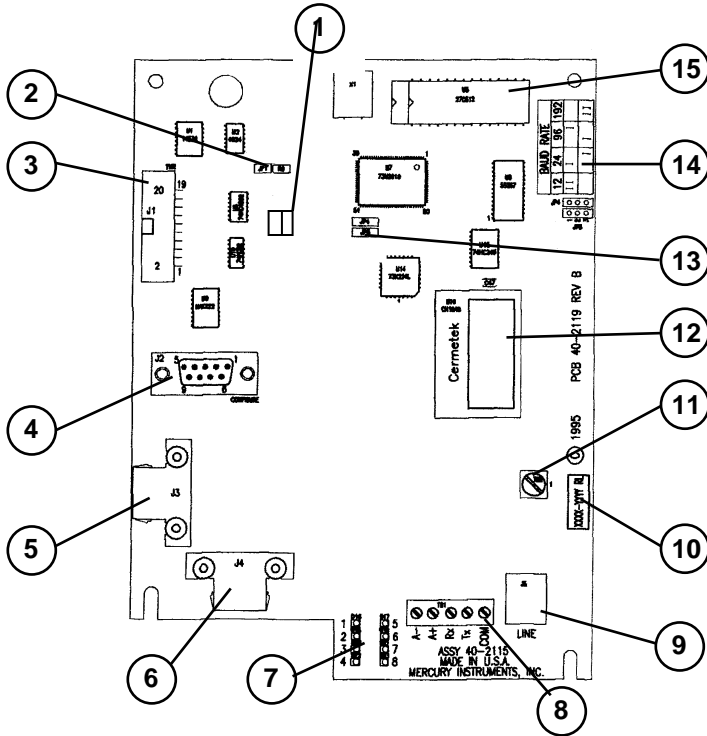
- 1) TB2 – RS-232 Serial Port #2, (Modem) 2-part connector
- 2) J3 – Connector for Numeric LCD board
- 3) J6 – 6-pin header for RS-232 Serial Port #1 (Local)
- 4) J4 – Connector for KYZ Pulse Output ribbon cable (SPA)
- 5) J26 – 4-pin header for Memory Battery
- 6) JB31 – 3-pin header for configuring Form-A or Form-C
- 7) J7 – 1 of 2 Main Battery connections
- 8) J8 – 2 of 2 Main Battery connections
- 9) TB1 – Pulse output (configured by JB29, JB30 & JB31)
- 10) JB30 – 2x6-pin header for configuring Form-A or Form-C
- 11) --- Main board serial number
- 12) J9 – 6-pin header for UncVol Input Switches
- 13) JB29 – 7-pin header for configuring Form-A or Form-C
- 14) J10 – 8-pin header for PCor Pressure Transducer (#1)
- 15) J5 – 2-pin header for Temperature Probe
- 16) J28 – 8-pin header for PLog Pressure Transducer (#2)
- 17) --- Memory Battery
- 18) J27 – 2-pin header for 2nd Temperature Probe (not used)
- 19) J23 – 2x3-pin header, BDM Connector (Reset via pins 2&4)
- 20) --- FLASH memory
- 21) --- RAM memory
- 22) --- CPU
- 23) J22 – 2x5-pin header, SPI Connector (Not Used)
- 24) J2 – 6-pin header for Field Calib or Digital I/O input
- 25) J21 – 2-pin header for Aux. Modem Power
- 26) JP900 – 3-pin header for Aux Modem Connection
(1-2 Aux modem at J20, 2-3 modem at TB2)
- 27) J20 – 2x5-pin header for Aux Modem Connection
- 28) JB24 – 2x5-pin header, Configuration Jumper Block

Mini-Max / ERX / PA Main Board p/n 40-2572



- 1) TB1 – Pulse output (two Form-A channels, plus alarm)
- 2) TB2 – Remote Switch Input
- 3) ---- Label to identify pin-out of J2
- 4) J2 – 2x7-pin header for UncVol Input Switches
- 5) ---- CPU
- 6) J5 – CMOS serial I/O (Connection from MPA)
- 7) J7 – 8-pin header for Pressure Transducer
- 8) J6 – 2-pin header for Temperature Probe
- 9) J4 – 1 of 2 battery connections
- 10) J3 – 2 of 2 battery connections
- 11) JP1 – 2-pin header, connects Super Cap when jumpered
- 12) C5 – Super Cap (provides limited back-up power when replacing battery pack)
- 13) ---- Serial number label
- 14) J1 – Connector for Alpha-numeric LCD board

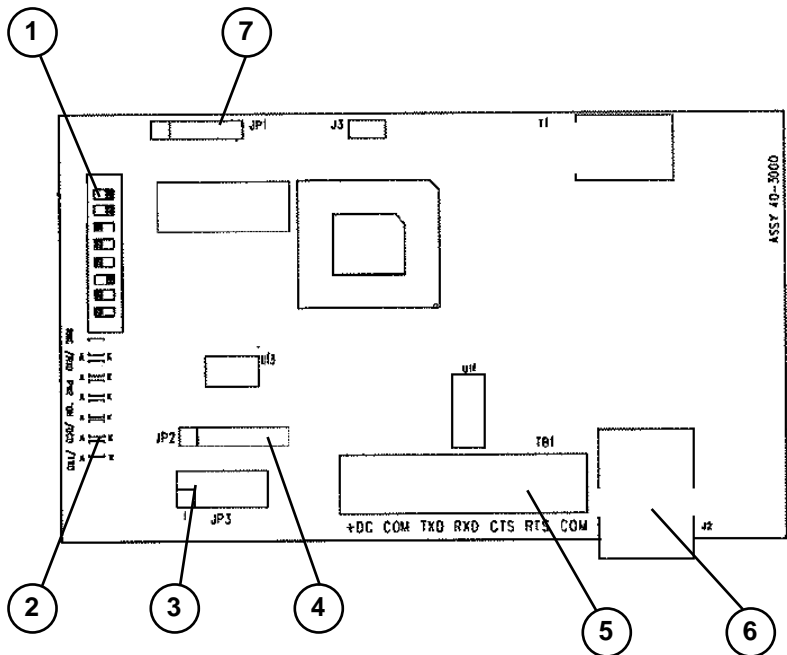
Mercury Modem Board p/n 40-2115



- 1) JP2 & JP3 – 2-pin header (not used at this time)
- 2) JP1 – 2-pin header, enables AT-command call-in
firmware version is 2.30 and
- 3) J1 – 2x10-pin expansion port connector for serial
and alarm ports "B", "C" and "D"
- 4) J2 – DB-9 connector for modem configuration via
laptop
- 5) J3 – 1 of 2 battery connections
- 6) J4 – 2 of 2 battery connections
- 7) D16 thru D22 - Red LED's indicating modem status:

1 Power	5 n/a
2 Off Hook	6 Modem Alarm Present
3 Carrier Detect	7 Port "A" Select
4 Tx to Host	8 Rx from Host
- 8) TB1 – Terminal Strip connection for Port-"A",
includes: A-, A+, Rx, Tx, Com
- 9) J5 – RJ-11 Telephone line connector
- 10) ---- Serial number label
- 11) TB2 – Screw connection for Earth ground
- 12) U19 – DAA modem module
- 13) JP4 & JP5 – 3-pin headers for selecting baud rate
between modem and instrument
- 14) ---- Information for setting jumpers JP4 & JP5
- 15) U5 – EPROM firmware (in socket)

Messenger Modem Board p/n 40-3000 (f/w ver 2.19)



- 1) Configuration Switches, 8 total (top to bottom):

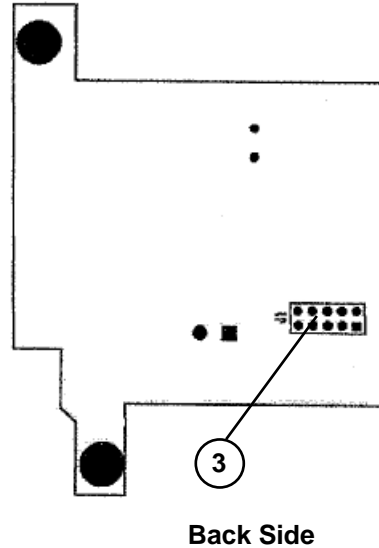
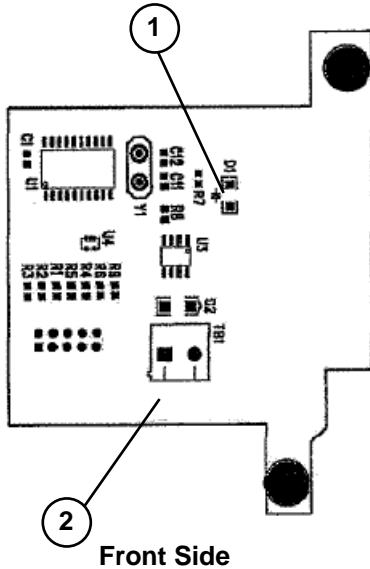
Sw#1 – Baud Rate	1200 or 2400
Sw#2 – Line Share	enabled or disabled
Sw#3 – Answer Mode	enabled or disabled
Sw#4 – no function	Always Off
Sw#5 – Wakeup on RS-232	enabled or disabled
Sw#6 – Shutdown on Low Batt	disabled or Enabled
Sw#7 – Answer incoming Calls	enabled or disabled
Sw#8 – Serial Data Mode	RS-232 or CMOS
- 2) Status LEDs, 6 total (top to bottom):

LED#1 – "RING"	Ring
LED#2 – "RXD"	Receive Data
LED#3 – "PWR"	Power
LED#4 – "OH"	Off Hook
LED#5 – "DCD"	Carrier Detected
LED#6 – "TXD"	Transmit Data
- 3) JP3 – 2x5-pin connector, mainly used for the CMOS ribbon cable to Mini-Max Main board
- 4) JP2 – 6-pin connector, sometimes used as a power connection to the modem board
- 5) TB1 Terminal Strip (7-lug) connections, Left to Right:

| +DC | COM | TXD | RXD | CTS | RTS | COM |

- 6) J2 – Connector (RJ-11) telephone line connection
- 7) JP1 – 5-pin connector, Factory Programming Port

Turbo Frequency Board (TFB) p/n 40-2885



1) D1 – LED (red) status indicator
Slow Blink (once per second) when power is first applied and is waiting for a valid data packet from TIB

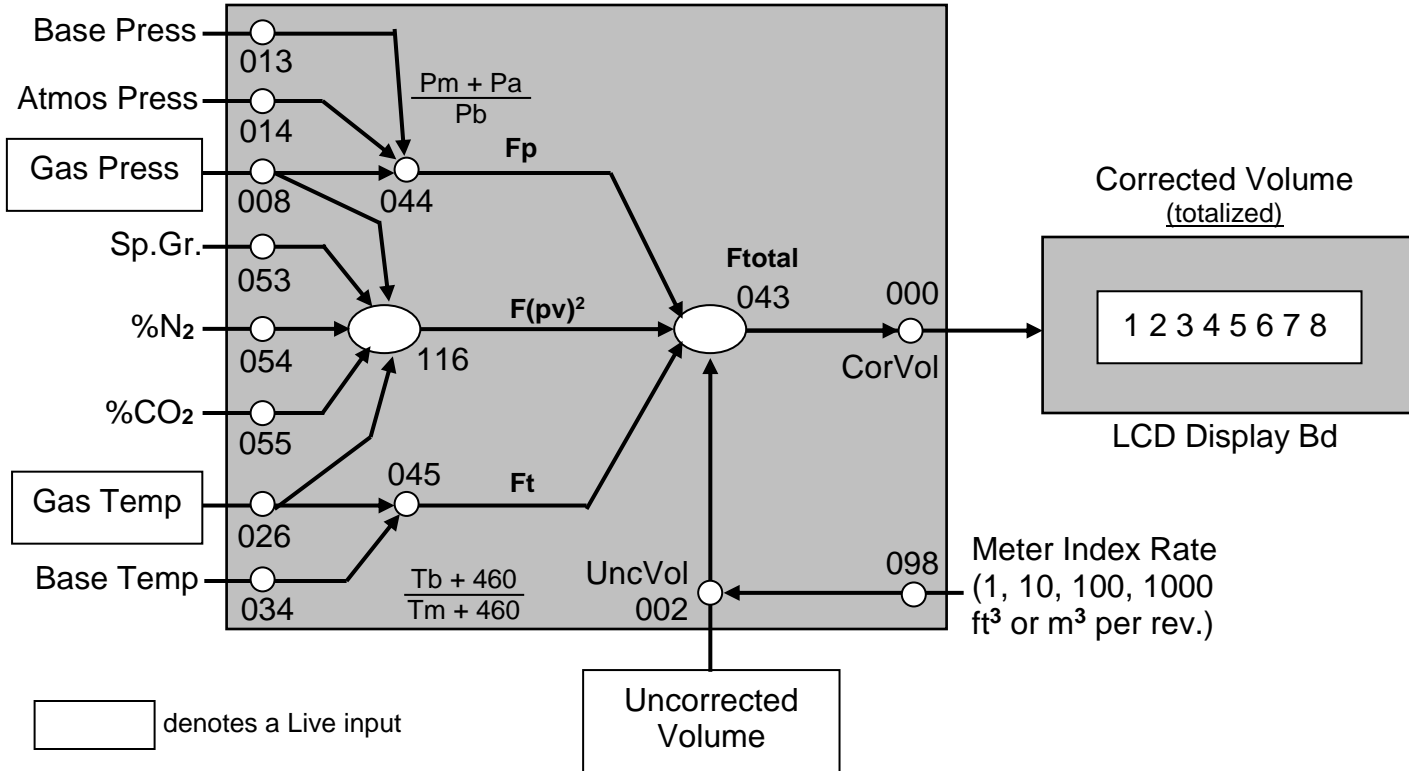
Fast Blink (7 per second) indicates that a valid data packet has been received and an output frequency has been transmitted to the opto-coupler

Note: During normal operation, the LED will always blink at the faster rate

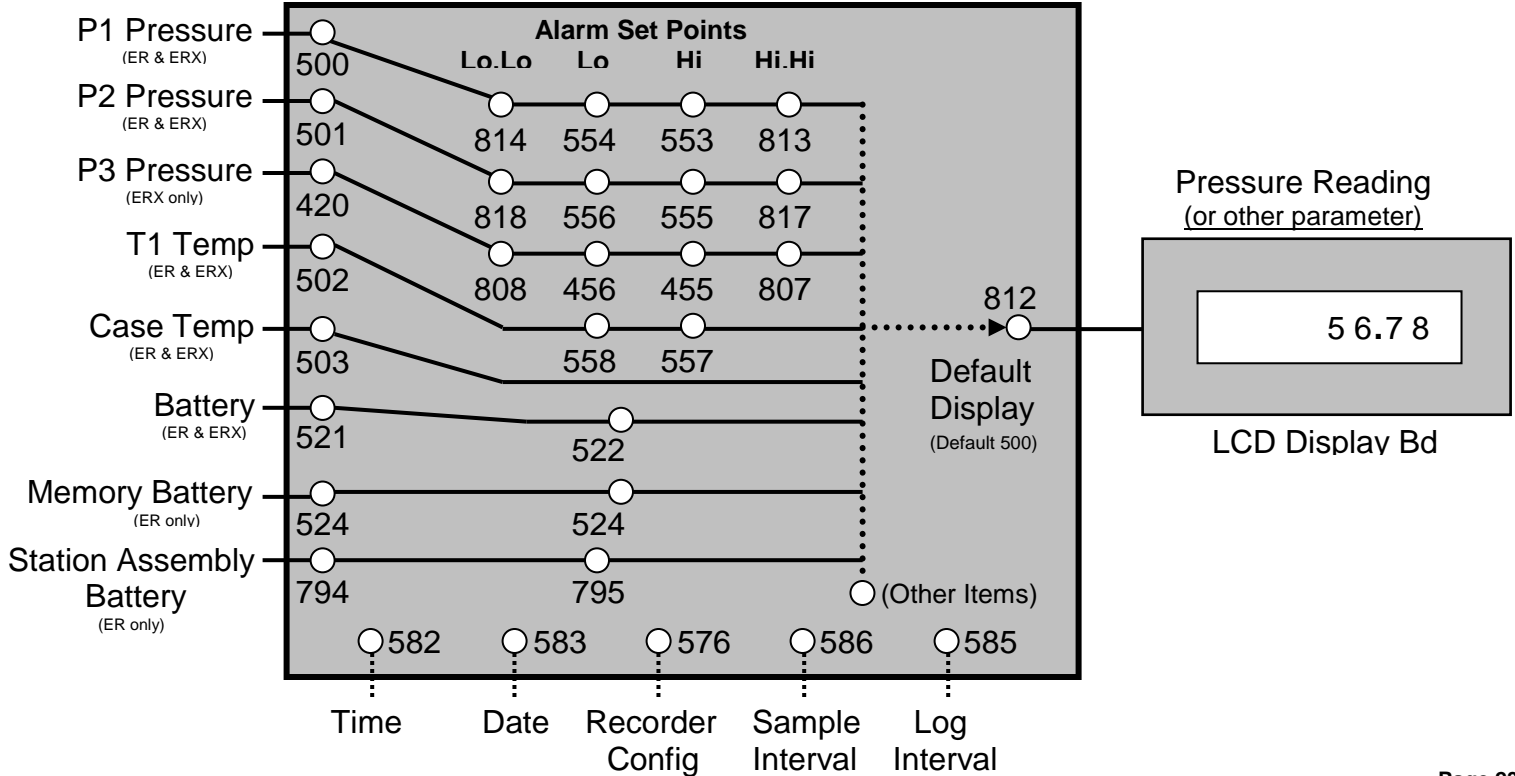
2) TB1 – Terminal Strip (2-lug) High Frequency output, must be wetted by a 3-15 volts DC receiver

3) J1 – 2x5-pin connector to provide TFB power, and input signal from TIB J6

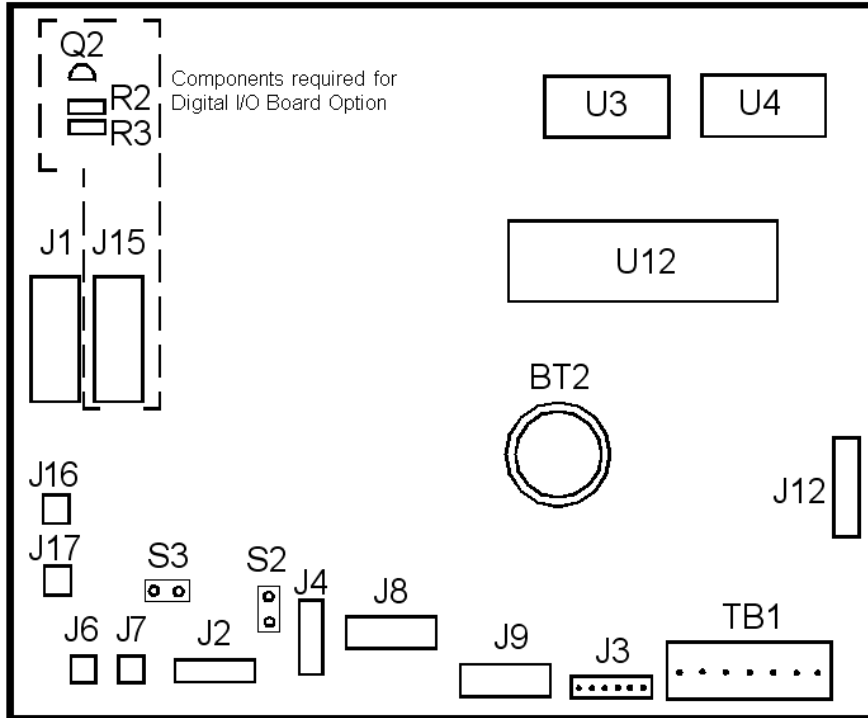
EVC Simplified Overview Main Circuit Board



ER / ERX Simplified Overview Main Circuit Board



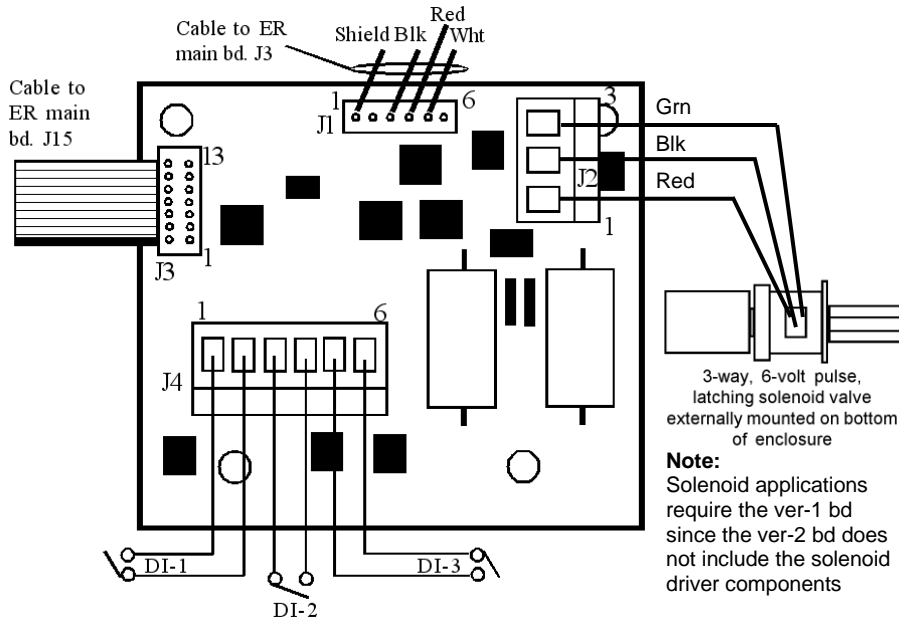
ER Main Board p/n 40-1896-2



- J1** - Numeric Display
- J2** - Press 2 Input
- J3** - Field Calibrator
- J4** - Press 1 Input
- J6** - Temp Probe Input
- J7** - Storage Battery Monitor Input
- J8** - Battery 1 Input
- J9** - Battery 2 Input
- J12** - RS-232 Serial Conn.
- J15** - Connector (for Dig I/O Option)
- J16** - Power Control Signal Output
- J17** - Push Button Conn
- TB1** - Alarm/Modem Conn.
- BT2** - Memory Battery
- U3** - RAM Memory
- U4** - Code PROM
- U12** - Microprocessor
- Q2** - Transistor (for Dig I/O Option)
- R2** - Resistor (for Dig I/O Option)
- R3** - Resistor (for Dig I/O Option)
- S2** - Gain Resistor Press 1
- S3** - Gain Resistor Press 2

Digital I/O Board

p/n 40-2304-1 (ver-1), 40-2304-2 (ver-2)



Note: for DI1, DI2 & DI3, use switches with isolated contacts rated for “dry-circuit” operation only. The switches may be normally open (NO) or normally closed (NC) and must be configured via MasterLink software. Switch contacts are scanned at the Simple Converter (item 586) to check for a change of the contact state.

The Digital I/O Board (ver-1) is an electronic interface to a 3-way, 6-volt pulse, latching solenoid valve. The Digital I/O board also provides circuitry for connection and monitoring of up to three remote switches.

User programmable item codes in the firmware allow four daily time settings and one temperature band to control the switching action of the solenoid. The most common function for the solenoid is to switch the pilot settings on a gas regulator, which in turn produces a low-pressure output or a high-pressure output for accommodating peak demands.

In addition, three remote switches (i.e., tamper, AC off, pressure low, etc.) may be connected to J4. The three DI (Digital Input) alarms can be independently configured to produce an alarm when the switch opens **or** closes. The ER can then call-in (via a modem) to Alarm-Link or other 3rd party alarm-monitoring software.