



Japsin Instrumentation

ISO 9001:2015 CERTIFIED ORGANIZATION

CALIBRATORS (mV/mA/RTD Source Meter)	DIGITAL PANEL METERS (DPMS)
	
MICRO-OHM METER	PORTABLE THERMOMETERS/ TEMPERATURE INDICATORS
	
TEMPERATURE CONTROLLERS	TEMPERATURE SENSORS
	
TIMERS	COUNTERS/TOTALISERS
	

DIGITAL CALIBRATOR (Table Top/Mains Operated)
(Millivolt / Volt / Milliamp Source Cum Measure)

MODEL	:		
DISPLAY	:	4½ digit 0.4"ht LED	
RANGES	:	0-200mVDC / 0-2VDC / 0-20 VDC 0-200µADC / 0-2mADC / 0-20 mADC	} Selectable by Push Button
ACCURACY	:	± 0.05% ± 2 digit for 200mVDC ±0.1% ± 2 digit for 2 VDC & 20 VDC ±0.25% ± 2 digit for current ranges	
VOLTAGE / CURRENT SOURCE / MEASURE SOURCE	:	Selectable by a Push Button Selectable by a Push Button Millivolt / Volt / Current are adjustable by means of 'Coarse' & 'Fine' Potentiometers in 'Source' mode	
POWER	:	230± 10% VAC,50Hz	



DIGITAL PANEL METERS

DIGITAL PANEL METER FOR DC VOLT MEASUREMENT

MODEL	:	
DISPLAY	:	3 1/2 digit 0.5"ht LED
RANGES	:	0 - ± 200m VDC / 0 - ± 2 VDC / 0 - ± 20 VDC / 0 - ± 200 VDC / 0 - ± 1000 VDC
ACCURACY	:	± 0.1% ± 2 Counts for 200 mVDC & 2 VDC / ±0.2% ± 2 Counts for other ranges
POWER	:	230 ± 10% VAC, 50 HZ
SIZE	:	Panel Mounting Type 48mm H x 96mmW x 75mm D / 96mm H x 96 mmW x 75mm D
PANEL CUTOUT:	:	46mm H x 92mm W OR 92mm H x 92mm W



DIGITAL PANEL METER FOR DC CURRENT MEASUREMENT

MODEL	:	
DISPLAY	:	3 1/2 digit 0.5"ht LED
RANGES	:	0-± 200µ ADC / 0 - ± 2m ADC / 0 - ± 20m ADC / 0 - ± 200m ADC / 0 ± 2 ADC / 0- ± 10 ADC / 75m VDC from external shunt → user to specify, /4-20mADC → User to specify
ACCURACY	:	± 0.5% ± 2 Counts
POWER	:	230 ± 10% , 50 HZ
SIZE	:	Panel Mounting Type 48mm H x 96mmW x 75mm D / 96mm H x 96 mmW x 75mm D
PANEL CUTOUT:	:	46mm H x 92mm W / 92mm H x 92mm W



DIGITAL PANEL METER FOR AC VOLT MEASUREMENT

MODEL	:	
DISPLAY	:	3 1/2 digit 0.5"ht LED
RANGES	:	0 to 200m VAC / 0-2 VAC / 0-20VAC / 0-200VAC / 0-1000VAC / 230VAC → user to specify
ACCURACY	:	± 0.5% ± 2 Counts
POWER	:	230 ± 10%VAC, 50 HZ
SIZE	:	Panel Mounting Type 48mm H x 96mm W x 75mm D / 96mm H x 96 mmW x 75mm D
PANEL CUTOUT	:	46mm H x 92mm W / 92mm H x 92mm W



DIGITAL PANEL METER FOR AC CURRENT MEASUREMENTS

MODEL	:	
DISPLAY	:	3 1/2 digit 0.5" ht LED
RANGES	:	0 to 200µ AAC / 0 - 2 mAAC / 0-20mAAC / 0-200m AAC / 0-2 AAC / 0-10 AAC / 5 AAC from External CT → user to specify
ACCURACY	:	± 0.5% ± 2 Counts
POWER	:	230 ± 10% VAC, 50 HZ
SIZE	:	Panel Mounting Type 48mm H x 96mmW x 75mm D / 96mm H x 96 mmW x 75mm D
PANEL CUTOUT	:	46mm H x 92mm W / 92mm H x 92mm W



DIGITAL LINE FREQUENCY METER

MODEL	:	
DISPLAY	:	4 digit 0.5" ht LED
INPUT	:	Self Powered
RANGE	:	30.00 to 70.00 Hz
RESOLUTION	:	0.01 Hz
ACCURACY	:	± 0.05 Hz ± 1 Counts
SAMPLE TIME	:	1 Sec.
POWER	:	230 ± 10% VAC, 50 Hz
SIZE	:	Panel Mounting Type 48mm H x 96mmW x 75mm D / 96 mm H x 96mmW x 75mm D
PANEL CUTOUT	:	46mm H x 92mm W OR 92mm H x 92mm W



NOTE : ALL 3 1/2 DPMS ARE ALSO AVAILABLE IN SIZE 72mmHx72mmWx75mmD

DIGITAL PANEL METERS 4 1/2 DIGIT

DIGITAL 4 1/2 DIGIT PANEL METER FOR DC VOLTAGE OR CURRENT MEASUREMENTS

MODEL	:	
DISPLAY	:	4 1/2 digit 0.5" ht LED
RANGE	:	0 - ± 199.99mVDC / 0-± 1.9999 VDC / 0 - ± 19.999VDC 0-199.99 VDC / 0 - 1000.0 VDC
RANGE	:	0 - ± 199.99µADC / 0-± 1.9999 mADC / 0 - ± 19.999mADC 0-199.99 mADC / 0-± 1.9999 ADC / 0 - ± 10.000ADC
	:	75mVDC from external shunt / 4-20mADC → user to specify
ACCURACY	:	± 0.05% ± 2 digit for 200 mVDC± 0.1% ± 2 digit for all other voltage ranges ± 0.25% ± 2 digit for current ranges
POWER	:	230 ± 10% VAC, 50Hz
SIZE	:	Panel Mounting Type 48mm H x 96mmW x 110mmD
PANEL CUTOUT:	:	46mm H x 92mm W



DIGITAL 4 1/2 DIGIT PANEL METER FOR AC VOLTAGE OR CURRENT MEASUREMENTS

MODEL	:	
DISPLAY	:	4 1/2 digit 0.5" ht LED
RANGE	:	0 - 200 mVAC / 0-2VAC / 0-20VAC/0-200VAC/0-1000VAC/230VAC→ User to
RANGE	:	0 - 199.99µAAC / 0-1.9999 mAAC / 0 - 19.999mAAC 0-199.99 mAAC / 0-1.9999 AAC / 0 -10.0000AC
	:	5 AAC from external CT → user to specify
ACCURACY	:	0.25% ± 2 digit
POWER	:	230 ± 10% VAC, 50Hz
SIZE	:	Panel Mounting Type 48mm H x 96mmW x 110mm D
PANEL CUTOUT:	:	46mm H x 92mm W



DIGITAL SIGNAL FREQUENCY METER

DIGITAL SIGNAL FREQUENCY METER

MODEL	:	A) 10.00 to 99.99 Hz B) 10.0 to 999.9 Hz C) 10 to 9999 Hz D) 0.01 to 99.99 Khz	RESOLUTION	:	0.01 Hz 0.1 Hz 1 Hz 0.01 KHz
DISPLAY	:	4 digit 0.5" ht LED			
TIME BASE	:	Quartz - Crystal Oscillator			
SINGLE INPUT	:	2.5 VAC to 1000 VAC			
ACCURACY	:	0.01% ± 1 Count			
SAMPLE TIME	:	1 Second			
POWER	:	230 ± 10% VAC, 50Hz Counts			
SIZE	:	Panel Mounting Type 48mm H x 96mmW x75mm D / 96 mmH x 96 mmW x 75mmD			
PANEL CUTOUT	:	46mm H x 92mm W / 92mm H x 92mm W			



DIGITAL VAF METER

MODEL	:	
RANGES	:	190 VAC to 260 VAC for AC Volts (0 to 10AAC for AC current (Optional 5AAC from ext. CT→ User to specify) 30.00 to 70.00 Hz for Line Frequency.
DISPLAY	:	3 1/2 digit 0.5" ht LED for AC Volts 3 1/2 digit 0.5" ht LED for AC Current 4 digit 0.5" ht LED for Line Frequency
RESOLUTION	:	1 VAC for AC Volts 0.01 AAC for AC current 0.01 Hz for Line Frequency
ACCURACY	:	± 0.5% ± 2 Counts for AC Volts ± 0.5% ± 2 Counts for AC Current ± 0.01 Hz ± 1 Count for Line Frequency
POWER	:	230 ± 10% VAC, 50 Hz
SIZE	:	Panel Mounting Type 96mm H x 96 mmW x 75mm D
PANEL CUTOUT	:	92mm H x 92mm W



TEMPERATURE INSTRUMENTS

PORTABLE DIGITAL THERMOMETER FOR CR/AL T/C (0°C to 1200°C)

MODEL	:	
DISPLAY	:	3½ digit 0.5"ht LCD
RANGE	:	0°C to 1200°C
ACCURACY	:	± 0.5% ±1°C upto 1000°C; ±1%; ±2°C above 1000°C
AUTO C/JC	:	Provided
POWER	:	9 VDC BATTERY (Single Cell)



PROBES SUITABLE FOR

- A) Needle Probe **TC-24** 5" Long SS Sheath of dia 3 mm with handle & 1 Mtr. long PVC Compensating Cable (0°C to 600°C)



- B) Leaf Probe **TC-25** 6" by SS Sheath of dia 6 mm with handle & 1 mtr long PVC Compensating Cable (0°C to 600°C)



- C) Prick Probe **TC-28** 4" long SS Sheath of dia 3 mm with handle & 1 mtr. long PVC Compensating cable (0°C to 400°C)



- D) Immersion Probe **TC-22** 12" long Inconel Sheath of dia 6mm with handle & 1mtr long PVC Compensating Cable (0°C to 1200°C)



MODEL	:	
RANGE	:	a) 999 Counts
INPUT	:	Pulses from PNP (NO) Prox Switch, Photo Sensor, Potential free contact of Limit Switch / Relay or Voltage Pulses
DISPLAY	:	3 digit 0.5"ht LED
SETTING	:	By "Thumbwheel Switches"
ACCURACY	:	Absolute
RESET	:	Facility Provided
OUTPUT	:	1 NO/NC Relay Contact of rating 5A/230VAC resistive load
POWER	:	230 ±10% VAC, 50Hz
SIZE	:	Panel Mounting 72mmH x 72mmW x 110mmD
PANEL CUTOUT	:	68mm H x 68mm W



PROGRAMMABLE COUNTER

MODEL	:	
RANGE	:	0 to 9999 Counts
INPUT	:	Pulses from PNP (NO) Prox Switch, Photo Sensor, Potential free contact of Limit Switch / Relay or Voltage Pulses
DISPLAY	:	4 digit 0.5"ht LED
SETTING	:	By "KEYS"
ACCURACY	:	Absolute
OUTPUT	:	1 NO/NC Relay Contact of rating 5A/230VAC resistive load
POWER	:	230 ±10% VAC, 50Hz
SIZE	:	Panel Mounting 72mmH x 72mmW x 110mmD
PANEL CUTOUT	:	68mm H x 68mm W



**PORTABLE DIGITAL THERMOMETER FOR PT - 100 RTD
(-100°C to 400°C OR -100.0°C to +199.9°C)**

MODEL :
 DISPLAY : 3½ digit 0.5"ht LCD
 RANGE : -100°C to +400°C OR -100.0°C to +199.9°C
 ACCURACY : ± 0.5% ±1°C
 POWER : 9 VDC BATTERY (Single Cell)

Needle RTD (RTD-51) in 5"Long SS Sheath of dia 4 mm with 1 Mtr. long teflon / teflon cable suitable for



**DIGITAL TEMPERATURE INDICATOR
SUITABLE FOR Fe/Con/TC (0-600°C) OR CR/ALT/C (0°C TO 1200°C)
OR PT-100 RTD (-100°C TO +400°C OR -100.0°C TO +199.9°C)**

MODEL :
 DISPLAY : 3 1/2 digit 0.5" ht LED
 ACCURACY : ± 0.5% ± 1°C upto 1000°C; ±1% 2°C above 1000°C
 AUTO C/JC : PROVIDED for T/C inputs
 POWER : 230 ± 10% VAC, 50 Hz
 SIZE : Panel Mounting Type 48mm H x 96mmWx110 D/OR 96mm H x 96 mmW x75mmD
 OR 72mm H x 72mmW x75mmD
 PANEL CUTOUT : 46mm H x 92mm W OR 92mmHx 92mmW OR 68mm H x 68mmW



**MULTIPOINT (6 Point) DIGITAL TEMPERATURE INDICATOR
FOR Fe/ConT/C (0-600°C) OR Cr/Al/T/C (0-1200°C)
OR PT - 100 RTD (-100°C to + 400°C OR -100.0°C TO +199.9°C)**

MODEL :
 DISPLAY : 3½ digit 0.5" ht LED
 SELECTION OF INPUT : By Rotary Switch Provided on the front Panel
 ACCURACY : ± 0.5% ± 1°C upto 1000°C; ±1% ±2°C above 1000°C
 AUTO C/JC : Provided for T/C inputs
 POWER : 230 ± 10% VAC, 50 Hz
 SIZE : Panel Mounting Type 96mm H x 96 mmW x75mm D
 PANEL CUTOUT : 92mm H x 92mm W



**DIGITAL TEMPERATURE CONTROLLER
SUITABLE FOR FE/CON T/C (0-600°C)
OR CR/AL/TC (0-1200°C) OR PT-100 RTD (0-400°C OR 0-199.9°C)**

- a) **MODEL :**
(One Set Point, Potentiometric Setting)
- b) **MODEL :**
(One Set Point, Thumbwheel Setting)
- c) **MODEL :**
(Two Set Point (Hi & Lo) Potentiometric Setting)
- d) **MODEL :**
(Two Set Points (Hi & Lo) Thumbwheel Setting)

DISPLAY : 3½ digit 0.5"ht LED
 ACCURACY : ± 0.5% ±1°C upto 1000°C; ±1%; ±2°C above 1000°C
 CONTROLACATION : ON/OFF
 CONTROL ACCURACY : ±1°C
 OUTPUT : 1 NO / NC Relay Contact of rating 5A/230 VAC resistive load for each Set Point
 AUTO C/JC : Provided for the thermocouple input
 OPEN SENSOR PROTECTION : Built in
 POWER : 230 ±10% VAC, 50Hz
 SIZE : Panel Mounting a) 96mm H x 96mm W x 75mm D for SE-200 & SE-2120
 b) 72mm H x 72mm W x 75mm D for SE-200
 c) 72mm H x 72mm W x 110mm D for SE-2120
 d) 96mm H x 96mm W x 110mm D for SE-202 & SE-2220
 PANEL CUTOUT : 92mmH x 92mmW OR 68mm H x 68mm W



Straight type Fe/con T/C **SJ-2** or Cr/AIT/C **SK-2** in 6" long SS sheath of dia 6 mm with 2 mtr long ft/ss cable (0-600°C)

Fe/con T/C **TC-21J** or Cr/AIT/C **TC-21K** in 12" long SS sheath of dia 6 mm with Aluminium Head (0-600°C)

Cr/AIT/C **TC-23K** in 12" long Inconnel Sheath of dia 6mm with Aluminium Head (0-1200°C)

PT-100 RTD (3wire) **RTD-54** 12" long SS sheath of dia 6 mm with Aluminium Head (-100°C to 400°C)

PT-100 RTD (3wire) **RTD-53** in 6" long SS sheath of dia 6 mm with 2 mtr long ft/ss cable (-100°C to + 400°C)



DIGITAL TIMERS

DIGITAL TIMER

MODEL	:
RANGE	:	1 to 999 Seconds or Minutes
DISPLAY	:	3 digit 0.5"ht LED
SETTING	:	By " Thumbwheel Switches
TIME BASE	:	Quartz - Crystal Oscillator
ACCURACY	:	Better than 0.01%
RESET	:	Facility Provided
OUTPUT	:	1 No/NC Relay Contact of rating 5A/230VAC resistive load
POWER	:	230±10% VAC, 50Hz
SIZE	:	Panel Mounting 72mmH x 72mmW x 110mmD
PANEL CUTOUT	:	68mm H x 68mm W



PROGRAMMABLE TIMER

MODEL	:
RANGES	:	0.1 to 999.9 Secs. / Mins. / 1 to 9999 Secs. / Mins.
SETTING	:	By KEYS
TIME BASE	:	Quartz - Crystal Oscillator
ACCURACY	:	0.01% FSR
RESET	:	Facility Provided on the front panel
OUTPUT	:	2 No/NC Relay Contact of rating 5A/230VAC resistive load
POWER	:	230±10% VAC, 50Hz
SIZE	:	Panel Mounting 72mmH x 72mmW x 110mmD
PANEL CUTOUT	:	68mm H x 68mm W



DIGITAL COUNTERS / TIME TOTALISERS

DIGITAL EVENT COUNTER

MODEL	:
INPUT	:	Pulses from PNP (NO) Prox Switch, Photo Sensor Potential Free NO / NC contacts of Limit Switch / Relay, Voltage Pulses
RANGE	:	999999 Counts
DISPLAY	:	6 digit 0.5"ht LED
ACCURACY	:	Absolute
BATTERY BACKUP	:	Built - in
RESET	:	Facility Provided
POWER	:	230 ±10% VAC, 50Hz
SIZE	:	Panel Mounting 48mmH x 96mmW x 110mmD
PANEL CUTOUT	:	46mm H x 92mm W



DIGITAL TIME TOTALISER

MODEL	:
RANGE	:	99999.9 Minutes OR 9999.99 Hrs.
DISPLAY	:	6 digit 0.5"ht LED
TIME BASE	:	Quartz - Crystal Oscillator
ACCURACY	:	0.01%
BATTERY BACKUP	:	Built - in
RESET	:	Facility Provided
START	:	Power on or external potential free contacts
POWER	:	230 ±10% VAC, 50Hz
SIZE	:	Panel Mounting 48mmH x 96mmW x 110mmD
PANEL CUTOUT	:	46mm H x 92mm W



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