

# ***GP:50***

**RELIABLE & ACCURATE**

**PRESSURE, LEVEL & TEMPERATURE PRODUCTS**



**OIL & GAS  
MARKETS**



# PRESSURE, LEVEL & TEMPERATURE PRODUCTS



**INDUSTRIAL**

**111 / 211 / 311**

**APPLICATIONS**

- Oil field vehicles
- Hydraulic test stands
- Pneumatic / Hydraulic control
- Pumps & compressors
- Process control lines

**FEATURES**

- FM, CSA, ATEX & IEC approvals
- Rugged welded design
- High cycle life
- High proof pressure

**RANGES (PSI)**

0-1 PSI thru 0-100K PSI  
G, SG, V, A

**ACCURACY (FSO)**

±0.5%, ±0.2% or ±0.1%

**OUTPUT**

mV/V, Vdc or 4-20 mA

**PROCESS PORT**

1/4" NPT (F)

**ELECTRICAL**

Liquid tight connection with 36" leads

**WETTED PARTS**

17-4 PH



**SMART RANGEABLE**

**411**

**APPLICATIONS**

- Off Shore rigs & pumping platforms
- Pipelines & processing
- Shipboard & marine

**FEATURES**

- 4-20 mA with HART protocol
- 5:1 Ranging
- Secondary containment
- FM/CSA Explosion Proof available

**RANGES (PSI)**

0-15 to 0-100K PSI  
G, SG, V, A

**ACCURACY (FSO)**

±0.2% or ±0.1%

**OUTPUT**

4-20 mA with HART

**PROCESS PORT**

1/4" NPT (F)

**ELECTRICAL**

1/2" NPT (M) conduit with 6ft 18 AWG cable

**WETTED PARTS**

17-4 PH



**FLUSH MOUNT**

**340-IM**

**APPLICATIONS**

- Blender discharge pressure
- Frack pump suction pressure
- Skidded systems

**FEATURES**

- Compact 1" diameter design
- Flush-faced sensor
- Rugged all SST construction
- 5X proof pressure
- No zero offset

**RANGES (PSI)**

0-50 thru 0-500 PSI

**ACCURACY (FSO)**

±0.5% or ±0.20%

**OUTPUT**

4-20 mA  
(Voltage available)

**PROCESS PORT**

1/2" NPT (M)

**ELECTRICAL**

1/2" NPT (M) conduit with leads or SST military grade connector

**WETTED PARTS**

Inconel & 316L SST



**TEMPERATURE TRANSMITTER**

**340T**

**APPLICATIONS**

- Oil field vehicles
- Oil and gas pipeline
- Chemical industries
- Laboratory

**FEATURES**

- Compact 1" diameter design
- 3/4" to 7" probe length
- Pressure rating 10K PSI
- Lightweight, 5 oz

**RANGES (PSI)**

-40 °F to +300 °F  
Process temperature

**ACCURACY (FSO)**

±3.0 °F

**OUTPUT**

4-20 mA  
(Voltage available)

**PROCESS PORT**

1/4" NPT (M)

**ELECTRICAL**

6 PIN Bendix PTIH-10-6P

**WETTED PARTS**

316 SST



**FLUSH MOUNT / CANBUS PRESSURE/TEMPERATURE**

**540 / 543**

**APPLICATIONS**

- Oil field vehicle controls
- Off-shore platforms
- Dredging
- Oil rig top side controls
- Process skids

**FEATURES**

- Compact 1" diameter
- Rugged welded design
- CANbus SAE J1939 or CANopen Protocol
- Pressure and temperature in one device (543)
- Flush sensor eliminates media plugging (540)

**RANGES (PSI) / °F**

0-50 thru 0-1K PSI  
Temp: -65 °F to +300 °F

**ACCURACY (FSO)**

±0.2% or ±0.1%  
Temp: ±3 °F

**OUTPUT**

- CANbus SAE J1939
- CAN Open

**PROCESS PORT**

1/2" NPT (M), with temperature probe(543)

**ELECTRICAL**

6 PIN Bendix PTIH-10-6P

**WETTED PARTS**

17-4 PH or Inconel

# INSTRUMENTS DESIGNED FOR THE UPSTREAM OIL AND GAS MARKETPLACE: SUBSEA, OFFSHORE AND LAND BASED APPLICATIONS



**HAZARDOUS LOCATIONS  
FLUSH MOUNT**

**311-IM**



**FIELD RANGEABLE**

**1171**



**WECO® HAMMER UNION  
PRESSURE/TEMPERATURE**

**170 / 270 / 370**



**HIGH PRESSURE, HIGH  
TEMPERATURE WECO® UNION**

**370-HPHT**



**DOWNHOLE  
PRESSURE/TEMPERATURE**

**120**

APPLICATIONS	APPLICATIONS	APPLICATIONS	APPLICATIONS	APPLICATIONS
<ul style="list-style-type: none"> <li>Blender discharge pressure</li> <li>Frack pump suction pressure</li> <li>Well head control</li> <li>Sludge &amp; slurries</li> <li>Adhesives &amp; paints</li> </ul>	<ul style="list-style-type: none"> <li>Well head pressures</li> <li>BOP control</li> <li>Offshore control panels</li> <li>Pipelines &amp; processing</li> <li>Shipboard &amp; marine</li> </ul>	<ul style="list-style-type: none"> <li>Fracing, cementing, MWD, Acidizing, Stand pipe, Stimulation, Choke &amp; kill</li> </ul>	<ul style="list-style-type: none"> <li>HPHT wells</li> <li>Fracing, cementing, MWD, Acidizing, Stand pipe, Stimulation, Choke &amp; kill</li> </ul>	<ul style="list-style-type: none"> <li>Oil field downhole tools</li> <li>MWD, PWD &amp; LWD tools</li> <li>Geothermal</li> <li>Wellhead monitoring</li> <li>Coil tubing</li> </ul>
FEATURES	FEATURES	FEATURES	FEATURES	FEATURES
<ul style="list-style-type: none"> <li>FM, CSA, ATEX &amp; IEC approvals</li> <li>Flush sensor eliminates media plugging</li> <li>No zero offset due to installation</li> <li>Rugged welded design</li> <li>High proof pressure options</li> </ul>	<ul style="list-style-type: none"> <li>5:1 ranging</li> <li>Magnetically coupled adjustment</li> <li>4-20 mA loop powered</li> <li>FM, CSA Intrinsically Safe &amp; Explosion Proof</li> <li>IP 67 &amp; NEMA 6 rated housing</li> </ul>	<ul style="list-style-type: none"> <li>2"-1502, 2002 or 2202 WECO® Union</li> <li>Temperature output option</li> <li>Minimal knock up effect</li> <li>Protective 'cage' option eliminates connector damage</li> </ul>	<ul style="list-style-type: none"> <li>Operation to +350 °F process</li> <li>Minimal knock up effect</li> </ul>	<ul style="list-style-type: none"> <li>Rated to +400 °F</li> <li>Compact design, 3/4" diameter</li> <li>Welded, hermetic construction</li> <li>Optional pressure &amp; temperature outputs</li> </ul>
RANGES (PSI)	RANGES (PSI)	RANGES (PSI)	RANGES (PSI)	RANGES (PSI)
0-50 thru 0-750 PSI	0-15 thru 0-100K PSI G, SG, V, A	0-3K thru 0-20K SG	0-3K thru 0-20K SG	0-5K PSI thru 0-30K PSI
ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)
±0.5% or ±0.20%	±0.5% or ±0.25%	±0.25% or ±0.12%	±0.25%	±0.5% or ±0.25%
OUTPUT	OUTPUT	OUTPUT	OUTPUT	OUTPUT
4-20 mA (Voltage available)	4-20 mA	mV/V, 0-5 Vdc or 4-20 mA	0-5 Vdc or 4-20 mA	2 or 3 mV/V
PROCESS PORT	PROCESS PORT	PROCESS PORT	PROCESS PORT	PROCESS PORT
1/2" NPT (M)	1/4" NPT (F)	2"-1502, 2002, 2202 or 602 WECO® Union	2"-1502, 2002 or 2202 WECO® Union	AS4395E04
ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL
6 PIN Bendix PTIH-10-6P	1/2" NPT (M) conduit with leads	User selectable	User selectable	Solder connection via J-Hooks
WETTED PARTS	WETTED PARTS	WETTED PARTS	WETTED PARTS	WETTED PARTS
Inconel 718 & 316 SST	17-4 PH	17-4 PH or Inconel	17-4 PH or Inconel	Inconel 718

- Some options may affect performance, size, or other characteristics. Consult factory for final selection.
- Standard options shown. Many options available, consult factory.
- Accuracy includes; non-linearity, hysteresis & repeatability - BFSL.



**SUBSEA  
PRESSURE/TEMPERATURE**

**SUBSEA  
DIFFERENTIAL**

**HIGH ACCURACY  
DIFFERENTIAL**

**SUBSEA PRESSURE /  
TEMPERATURE**

**CRYOGENIC**

**7500-9000**

**7540**

**136 / 236 / 336**

**7500 / 7850**

**311-CRYO**

APPLICATIONS	APPLICATIONS	APPLICATIONS	APPLICATIONS	APPLICATIONS
<ul style="list-style-type: none"> <li>• BOP controls</li> <li>• Subsea well head control</li> <li>• Oil platform</li> <li>• Depth/level sensing</li> </ul>	<ul style="list-style-type: none"> <li>• Subsea well head control</li> <li>• Sea level reference</li> <li>• ROV &amp; DSRV's</li> </ul>	<ul style="list-style-type: none"> <li>• Liquefied natural gas transport &amp; storage</li> <li>• Flow measurement</li> <li>• Leak test</li> </ul>	<ul style="list-style-type: none"> <li>• Military &amp; commercial ROV's</li> <li>• Subsea oil &amp; gas</li> <li>• Naval exploration</li> <li>• Subsea oil wellhead pressures/temperatures</li> </ul>	<ul style="list-style-type: none"> <li>• LNG (Liquefied Natural Gas) processing, transportation &amp; storage</li> <li>• CNG (Compressed Natural Gas)</li> <li>• Oil field nitrogen pumping</li> </ul>
FEATURES	FEATURES	FEATURES	FEATURES	FEATURES
<ul style="list-style-type: none"> <li>• API flanges</li> <li>• HART protocol</li> <li>• Exotic wetted materials</li> <li>• Pressure &amp; temperature output</li> <li>• Redundant sensor option</li> <li>• Rated to 30K feet</li> </ul>	<ul style="list-style-type: none"> <li>• Compact, rugged design</li> <li>• High line / low DP ranges</li> <li>• Flush port options</li> <li>• Sea water rated</li> <li>• Rated to 30K feet</li> </ul>	<ul style="list-style-type: none"> <li>• Compact design</li> <li>• Digitally compensated</li> <li>• 1K PSI line pressure</li> <li>• Lightweight, rugged SST design</li> </ul>	<ul style="list-style-type: none"> <li>• Compact, sea water rated design</li> <li>• Depth rated to 30K ft WC</li> <li>• High accuracy</li> <li>• RS232, RS485 output available</li> </ul>	<ul style="list-style-type: none"> <li>• Cryogenic service down to -320 °F (-196 °C)</li> <li>• ATEX &amp; CSA, Intrinsically Safe available</li> <li>• Remote mounted electronics</li> <li>• High-temp operation to +350 °F</li> </ul>
RANGES (PSI)	RANGES (PSID)	RANGES (PSI)	RANGES (PSI)	RANGES (PSI)
0-5K thru 0-25,000 PSI	0-50 thru 0-10K	1 PSID thru 500 PSID (higher ranges available, consult factory)	(7500) up to 20K (7850) -73 °C to +200 °C	0-150 thru 0-5K
ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)
±0.2%	±0.5% or ±0.2%	±0.20%, ±0.10% or ±0.05%	(7500) ±0.3% or ±0.1% (7850) ±3% or ±1%	±0.5% or ±0.2%
OUTPUT	OUTPUT	OUTPUT	OUTPUT	OUTPUT
Dual 4-20 mA with HART	mV/V, 0-5 Vdc or 4-20 mA	mA, Vdc, mV/V, CANbus, USB or RS485	<ul style="list-style-type: none"> <li>• 0-5 Vdc, 4-20 mA</li> <li>• RS232, RS485 &amp; Can protocols available</li> </ul>	4-20 mA or 0-5 Vdc
PROCESS PORT	PROCESS PORT	PROCESS PORT	PROCESS PORT	PROCESS PORT
API flange	1/4" NPT (F) (flush ports available)	1/4" NPT (F)	(7500) AS4395E04 (7850) w/ temp probe	AS4395E04 (M)
ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL
SST subsea rated connector	SST or glass filled Nylon subsea rated connector	6 PIN Bendix PTIH-10-6P	XSJJ-2-BCR (Seacon 2-pin)	PTIH-10-6P Bendix
WETTED PARTS	WETTED PARTS	WETTED PARTS	WETTED PARTS	WETTED PARTS
SST, Hastelloy & Inconel options	316 SST	316 SST	316 SST Inconel, Hastelloy, & Monel optional	17-4 PH



## **AEROSPACE**

Products designed for aerospace & military applications such as space flight, ground support, flight testing, on-board military vehicles, tanks, submarines, ROV's, DSRV's, unmanned flight vehicles, propulsion systems, cryogenic gas storage & any application requiring rugged, high reliability instruments.



## **INDUSTRIAL, TEST & CONTROL**

Products designed for automotive, laboratory & hydraulic test stands, machine control, skidded systems, pump & pneumatic control, on board vehicle testing, water treatment, rolling & steel mills and control systems requiring high accuracy & rugged construction.



## **MELT PRESSURE**

Products designed for the injection molding, plastics, chemical processing and solar thermal marketplace requiring rugged, high temperature rated instruments.

*GP:50  
also provides  
instruments  
for the:*

**OIL & GAS**

PROCESS CONTROL  
AUTOMOTIVE ON-BOARD  
AUTOMOTIVE TEST STAND

**PLASTIC**

**CRYOGENIC**

**WATER &  
WASTE WATER**

**SANITARY &  
OEM MARKETPLACE.**



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- Pressure, Level & Temperature Instrumentation
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- 4-20 mA, HART, Low-power Vdc or CANbus outputs
- Rugged, hermetic, welded stainless steel construction
- Gauge, absolute, differential & vacuum formats
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