

GP:50

RELIABLE & ACCURATE

PRESSURE, LEVEL & TEMPERATURE PRODUCTS



**OIL & GAS
MARKETS**



PRESSURE, LEVEL & TEMPERATURE PRODUCTS



INDUSTRIAL

111 / 211 / 311



SMART RANGEABLE

411



FLUSH MOUNT

340-IM/540-IM



TEMPERATURE TRANSMITTER

340T



PRESSURE / TEMPERATURE CANBUS TRANSMITTER

543

APPLICATIONS	APPLICATIONS	APPLICATIONS	APPLICATIONS	APPLICATIONS
<ul style="list-style-type: none"> Oil field vehicles Hydraulic test stands Pneumatic / Hydraulic control Pumps & compressors 	<ul style="list-style-type: none"> Off Shore rigs & pumping platforms Pipelines & processing Shipboard & marine service 	<ul style="list-style-type: none"> Blender discharge pressure Frack pump suction pressure Skidded systems 	<ul style="list-style-type: none"> Oil field vehicles Oil and gas pipeline Chemical industries Laboratory 	<ul style="list-style-type: none"> Oil field vehicle controls Off-shore platforms Dredging Oil rig top side controls Process skids
FEATURES	FEATURES	FEATURES	FEATURES	FEATURES
<ul style="list-style-type: none"> FM, CSA, ATEX & IEC approvals Rugged welded design High cycle life High proof pressure 	<ul style="list-style-type: none"> 4-20 mA with HART protocol 5:1 Ranging Secondary containment FM/CSA Explosion Proof available Submersible version 	<ul style="list-style-type: none"> Compact 1" diameter design Flush-faced sensor Rugged all SST construction 5X proof pressure No zero offset 	<ul style="list-style-type: none"> Compact 1" diameter design 3/4" to 7" probe length Pressure rating 10K PSI Lightweight, 5 oz 	<ul style="list-style-type: none"> Compact 1" diameter Rugged welded design CANbus SAE J1939 or CANopen Protocol Pressure and temperature in one device
RANGES (PSI)	RANGES (PSI)	RANGES (PSI)	RANGES (°F)	RANGES (PSI) / °F
0-1 PSI thru 0-100K PSI	0-15 to 0-100K PSI G, SG, V, A	0-75 thru 0-750 PSI (340) 0-50 thru 0-1K PSI (540)	-40 °F to +300 °F Process temperature	0-50 thru 0-10K PSI Temp: -65 °F to +300 °F
ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)
±0.5%, ±0.2% or ±0.1%	±0.25% or ±0.1%	±0.5% or ±0.2%	Temp: ±3.0 °F	Temp: ±3.0 °F
OUTPUT	OUTPUT	OUTPUT	OUTPUT	OUTPUT
mV/V, Vdc or 4-20 mA	4-20 mA with HART	4-20 mA (340) CANbus (540)	4-20 mA (Voltage available)	<ul style="list-style-type: none"> CANbus SAE J1939 CAN Open
PROCESS PORT	PROCESS PORT	PROCESS PORT	PROCESS PORT	PROCESS PORT
1/4" NPT (F)	1/4" NPT (F)	1/2" NPT (M)	1/4" NPT (M)	1/2" NPT (M), with temperature probe
ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL
Liquid tight connection with 36" leads	1/2" NPT (M) conduit with 6ft 18 AWG cable	1/2" NPT (M) conduit with leads or SST military grade connector	6 PIN Bendix PTIH-10-6P	6 PIN Bendix PTIH-10-6P
WETTED PARTS	WETTED PARTS	WETTED PARTS	WETTED PARTS	WETTED PARTS
≤1000 PSI: 316L SST >1000 PSI: 17-4 PH	17-4 PH	Inconel & 316L SST	316L stainless steel	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



**API FLANGED
PRESSURE TRANSMITTER**

375



**WECO® HAMMER UNION
PRESSURE/TEMPERATURE**

170 / 270 / 370



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

370-HPHT



**INDUSTRIAL GRADE
PRESSURE TRANSMITTER**

1001/1002/1003

APPLICATIONS	APPLICATIONS	APPLICATIONS	APPLICATIONS	APPLICATIONS
<ul style="list-style-type: none"> Blender discharge pressure Frack pump suction pressure Wellhead control Sludge & slurries Adhesives & paints 	<ul style="list-style-type: none"> BOP controls Wellhead & riser controls Lubricator systems Offshore oil platforms 	<ul style="list-style-type: none"> Fracking, cementing, MWD, Acidizing, Stand pipe, Stimulation, Choke & kill 	<ul style="list-style-type: none"> HPHT wells Fracking, cementing, MWD, Acidizing, Stand pipe, Stimulation, Choke & kill 	<ul style="list-style-type: none"> Lube Oil Transmission Pressure On-board vehicle Compressor Controls Pneumatic/hydraulic controls Pump controls
FEATURES	FEATURES	FEATURES	FEATURES	FEATURES
<ul style="list-style-type: none"> FM, CSA, ATEX & IEC approvals Flush sensor eliminates media plugging No zero offset due to installation Rugged welded design High proof pressure options 	<ul style="list-style-type: none"> Pressure and temperature output option Inconel wetted parts Optional HART communication protocol Offshore ratings 	<ul style="list-style-type: none"> 2"-1502, 2002 or 2202 WECO® Union Temperature output option Minimal knock up effect Protective 'cage' option eliminates connector damage 	<ul style="list-style-type: none"> Operation to +350 °F process Minimal knock up effect 	<ul style="list-style-type: none"> Low-cost, high reliability Up to 0.25% FSO accuracy Compact 0.870" diameter Rugged, all welded construction NEMA - 4X/IP65 rated CE Directives: EMC, PED, ROHS
RANGES (PSI)	RANGES (PSI)	RANGES (PSI)	RANGES (PSI)	RANGES (PSI)
0-50 thru 0-750 PSI	0-3K thru 0-30K PSI	0-3K thru 0-20K PSI	0-3K thru 0-20K PSI	0-15 PSI thru 0-10K PSI
ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)
±0.5% or ±0.20%	±0.2% or ±0.1%	±0.25% or ±0.10%	±0.25%	±0.5% or ±0.25%
OUTPUT	OUTPUT	OUTPUT	OUTPUT	OUTPUT
4-20 mA (Voltage available)	4-20 mA (HART optional)	mV/V, 0-5 Vdc or 4-20 mA	0-5 Vdc or 4-20 mA	3 to 10 mV/V or 0 to 5 Vdc, 0 to 10 VDC or 4-20 mA
PROCESS PORT	PROCESS PORT	PROCESS PORT	PROCESS PORT	PROCESS PORT
1/2" NPT (M)	2-1/16" thru 4-1/16" API Flange	2"-1502, 2002, 2202 or 602 WECO® Union	2"-1502, 2002 or 2202 WECO® Union	1/4" NPT (M) (other options available)
ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL
6 PIN Bendix PTIH-10-6P	MSSL-12-FCR-PBOF	User selectable	User selectable	36" long, 24 AWG, 4 conductor cable (Other options available)
WETTED PARTS	WETTED PARTS	WETTED PARTS	WETTED PARTS	WETTED PARTS
Inconel 718 & 316 SST	Inconel 718 & 4130 SS (Optional Inconel or Hastelloy inlay)	17-4 PH or Inconel	17-4 PH or Inconel	316L SST or 17-4 stain-

- 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**
7500-9000

**SUBSEA
DIFFERENTIAL**
7540

**HIGH ACCURACY
DIFFERENTIAL**
136 / 236 / 336

**SUBSEA PRESSURE /
TEMPERATURE**
7500 / 7850

CRYOGENIC
311-CRYO

APPLICATIONS	APPLICATIONS	APPLICATIONS	APPLICATIONS	APPLICATIONS
<ul style="list-style-type: none"> • BOP controls • Subsea well head control • Oil platform • Depth/level sensing 	<ul style="list-style-type: none"> • Subsea well head control • Sea level reference • ROV & DSRV's 	<ul style="list-style-type: none"> • Liquefied natural gas transport & storage • Flow measurement • Leak test 	<ul style="list-style-type: none"> • Military & commercial ROV's • Subsea oil & gas • Naval exploration • Subsea oil wellhead pressures/temperatures 	<ul style="list-style-type: none"> • LNG (Liquefied Natural Gas) processing, transportation & storage • CNG (Compressed Natural Gas) • Oil field nitrogen pumping
FEATURES	FEATURES	FEATURES	FEATURES	FEATURES
<ul style="list-style-type: none"> • API flanges • HART protocol • Exotic wetted materials • Pressure & temperature output • Redundant sensor option • Rated to 30K feet 	<ul style="list-style-type: none"> • Compact, rugged design • High line / low DP ranges • Flush port options • Sea water rated • Rated to 30K feet 	<ul style="list-style-type: none"> • Compact design • Digitally compensated • 1K PSI line pressure • Lightweight, rugged SST design 	<ul style="list-style-type: none"> • Compact, sea water rated design • Depth rated to 30K ft WC • High accuracy • RS232, RS485 output available 	<ul style="list-style-type: none"> • Cryogenic service down to -320 °F (-196 °C) • ATEX & CSA, Intrinsically Safe available • Remote mounted electronics • High-temp operation to +350 °F
RANGES (PSI)	RANGES (PSID)	RANGES (PSI)	RANGES (PSI)	RANGES (PSI)
0-5K thru 0-25,000 PSI	30 thru 7,500 PSID	1 PSID thru 500 PSID (higher ranges available, consult factory)	0-50 thru 0-20K PSI (7500) -73 °C to +200 °C (7850)	0-150 thru 0-5K
ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)	ACCURACY (FSO)
±0.2%	≤±0.3%	±0.25%, ±0.10% or ±0.05%	(7500) ±0.3% or ±0.1%	±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"> • 0-5 Vdc, 4-20 mA • RS232, RS485 & Can protocols available 	4-20 mA or 0-5 Vdc
PROCESS PORT	PROCESS PORT	PROCESS PORT	PROCESS PORT	PROCESS PORT
API flange	7/16-20 UNJF-3A	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	316 SST or Hastelloy	316 SST	316 SST Inconel, Hastelloy, & Monel optional	17-4 PH



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- Pressure, Level & Temperature Instrumentation
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