

# GE Sensing

## Features

- $\pm 0.1\%$  full scale (FS) accuracy
- NACE compatible
- ATEX intrinsically safe certified
- FM/CSA Class I, Division 1, intrinsically safe
- CE marked
- Fast response time (2 kHz)
- Repairable

The PTX 661 hammer union pressure transmitter has been designed for use in extremely harsh environments in both on-shore and off-shore Oil Drilling operations where high shock and vibration is likely to be encountered. The transmitter is available in both the 1502 and 2202 WECO® wing union configurations, both of which are NACE sour gas compatible.

The PTX 661 differs from other hammer union pressure transmitters in that it has a replaceable pressure transmitter insert which substantially reduces the high cost of transmitter replacement. With a 2 kHz response time, the device is suitable for measuring static and dynamic mud pressure.

The PTX 661 incorporates Druck's proprietary high-accuracy silicon sensor with up to 2.5 times better accuracy than many competitive devices. The low-volume oil-fill technology allows response times of faster than 2 kHz. The field-proven 4 to 20 mA electronics, packaged in a rugged enclosure, provide power supply regulation, reverse polarity, overvoltage and EMC protection. The fully encapsulated design provides exceptional reliability in high shock and vibration environments.

The PTX 661 is ATEX intrinsically safe certified and is FM and CSA Class I, Division 1, Groups A,B,C&D intrinsically safe certified.

# PTX 661

## Druck Hammer Union Pressure Transmitter

PTX 661 is a Druck product. Druck has joined other GE high-technology sensing businesses under a new name—GE Industrial, Sensing.



# PTX 661 Specifications

## Operating Pressure Ranges

0 to 5000, 6000, 10,000 and 15,000 psia or psig  
(0 to 350, 410, 700 and 1000 bar)

## Overpressure

2X FS to a maximum of 20,000 psi (1378 bar)

## Pressure Containment

30,000 psi (2070 bar) maximum

## Pressure Media

Fluids compatible with 316L stainless steel (NACE compatible), Inconel X750 and Inconel 625

## Supply Voltage

10 to 28 VDC

The minimum supply voltage that must appear across the transmitter terminals is 10 VDC and is calculated by:

$$V_{\min} = V_s - (0.02 \times R_L)$$

## Output Current

4 to 20 mA (Two-wire configuration)

## Zero Setting

±1% FS @ 75°F (24°C)

## Span Setting

±0.5% FS @ 75°F (24°C)

## Combined Non-linearity, Hysteresis and Repeatability

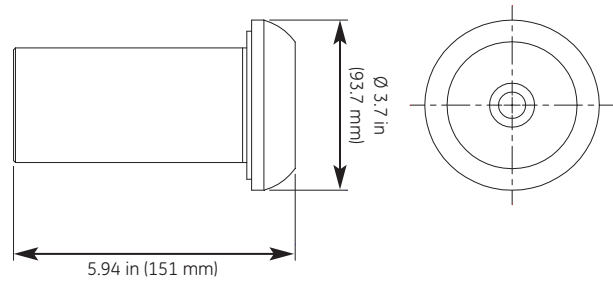
±0.1% FS best fit standard line (BSL)

## Temperature Limits

- Process: -40°F to 230°F (-40°C to 110°C)
- Ambient: -40°F to 230°F (-40°C to 110°C)
- Storage: -60°F to 300°F (-40°C to 148°C)
- Compensated: -40°F to 176°F (-40°C to 80°C)

## Temperature Effects

Total error band (TEB): ±1% over the compensated range



PTX 661 installation drawing

## Weight

6 lb (2.72 kg) nominal

## Response Time

Faster than 0.5 msec. (2 kHz)

## Pressure Connection

- 8547 WECO Wing Union #1502 (shown in drawing)
- 8593 WECO Wing Union #2202

## Ingress Protection

Type 4X

## Safety Classifications

- CE marked
- Baseefa EEx ia IIC T4 amb 176°F (80°C)
- Baseefa02ATEX0235X/4
- FM/CSA Intrinsic Safe Class I, Division 1, Groups A,B,C&D

## Electrical Connection

- 10-pin LEMO connector P/N: EGG-4K-310
- Six-pin bayonet connector P/N: PTIH-10-6P
- Four-pin glenair connector P/N: GC 379-2-14S-2P

## Options

- Carrying handle P/N: XA2448-1-01
- Insertion/extraction tool P/N: F2186-1
- Replaceable pressure transmitter insert P/N: PTX 721-8518 (state range)
- National Institute of Standards and Technology (NIST) traceable nine point room temperature calibration certificate

# PTX 661 Specifications

## Related Products

- PTX 500/600 pressure transmitter
- PTX/PMP 1240 pressure transmitter
- TAS-140-1 lightning arrester
- DPI 280 Series indicators

## Ordering Information

**Please state the following:**

1. Type PTX 661-85
2. Operating pressure range (sealed or absolute)
3. Options (if required)

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**PTX 661**

	<b>Code</b>	<b>Electrical Connection</b>
	1	10-pin LEMO Connector P/N EGG-4K-310
	2	Six-pin Bayonet Connector P/N PTIH-10-6P
	3	Two-pin Glenair Connector P/N GC 379-2-14S-29
		<b>Code      Pressure Connection</b>
		8547      WECO #1502
		8593      WECO #2202

PTX 661 - \_\_\_\_\_ - \_\_\_\_\_      **Typical model number.**

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**EX-CALIBRA**

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