Druck PTX 661 Hammer Union Transmitter

User Instructions - KA233
Approved Service Agents

The following are approved agents for the servicing of Druck products.

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**UK**
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**USA**
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Ruska Instrument Corporation
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**CANADA**
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Tel:(905) 238 2880
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PTX 661 Hammer Union Transmitter with pressure connection WECO® male sub #1502

PTX 661 Hammer Union Transmitter with pressure connection WECO® male sub #2202
**Introduction**

The Druck PTX 661 Hammer Union Transmitter accurately measures the pressure of fluids in pressure ranges up to 15,000 psi (0 to 1035 bar). The transmitter assembly has been designed to be located in a WECO® female sub and secured by a WECO® wrought nut.

The transmitter assembly comprises the pressure transmitter PTX 721-8518 contained in a sensor housing with a WECO® male sub pressure connection. A back end assembly and circlip seals the sensor housing; it requires a power supply of 10 to 28 V d.c. and produces an output of 4 to 20 mA.

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### Key to

1. WECO® female sub
2. WECO® male sub transmitter assembly
3. WECO® wrought nut

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**Installation**

1. Before installation, inspect the transmitter for obvious signs of damage and distortion.

   **Recommended for non-intrinsically safe installations**
   
   To avoid electrical interference, use shielded cable with the shield connected to ground at both ends.

2. Install the Hammer Union Transmitter Assembly in accordance with the WECO® Union Installation Instructions and, *for intrinsically safe installations, refer to Druck publication K383.*

   **CAUTION:** THE SENSING DIAPHRAGM CAN BE DAMAGED. WHEN CLEANING, DO NOT INSERT ANY SHARP OBJECT OR APPLY HIGH PRESSURE WATER DIRECTLY INTO THE PRESSURE PORT.

3. Before dismantling or reinstalling the transmitter, remove the mud and debris using a water pressure jet. Remove all encrusted mud and debris.

   **Note:** To replace the transmitter refer to Druck Replacement Instructions publication KA234.

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### Specification

**Pressure ranges:**

- .................................................................................................................. 0 to 5000 psi (345 bar)
- .................................................................................................................. 0 to 10,000 psi (690 bar)
- .................................................................................................................. 0 to 15,000 psi (1035 bar)

**Proof pressure (or maximum working pressure)**

- ............................................. 1.5 x full-scale to 20,000 psi (1380 bar) maximum

**Containment**

- ............................................. 2 x full-scale to 20,000 psi (1380 bar) maximum

**Over-pressure**

- ............................................. 1.5 x full-scale to 20,000 psi (1380 bar) maximum

**Environmental protection**

- .................................................................................................................. IP66

**Pressure media:**

- ......................... Fluids compatible with NACE sour gas
- ......................... 316L stainless steel, 625 Inconel and x750 Inconel
Druck PTX 661 Hammer Union Transmitter User Instructions

Accuracy:
Combined non-linearity, hysteresis and repeatability error .. ±0.1% BSL
Temperature error band ............................................. ±1% of full-scale
Power supply .............................................................. 10 to 28 V d.c
Output ........................................................................ 4 to 20 mA
Zero setting .............................................................. ±0.16 mA (±1% of span @ 42°F [23°C])
Span setting ............................................................ ±0.08 mA (±0.5% of span @ 42°F [23°C])

Temperature ranges:
Storage .......................................................... -65°F to +302°F [-54°C to +150°C]
Operating ..................................................... -40°F to +248°F [-40°C to +120°C]
Compensated ............................................. -4°F to +176°F [-20°C to +80°C]

Weight:
(approximate) ................................................................. 6 lbs (2.7 kg)
Dimensions ........................................................... see figure 2 (not to scale)
Refer to the data sheet for further details, other pressure ranges available on request.

Connector details

This product complies with the requirements of the relevant EC directives. For data on the applied directives and standards refer to the ‘Declaration of Comformity’.