## **Intrinsically Safe Hammer Union Pressure Transmitter**



The Hammer Union Pressure Transmitter is an extremely rugged pressure transmitter designed specifically for the harsh environment in the oil patch including Mud Logging and Measurement While Drilling.

#### **Features**

- Ranges to 20,000 psi
- 4-20 mA or 0-5 VDC output
- 1502 or 2202 fitting
- Exceptional shock and vibration resistance
- ±0.25% accuracy of full scale
- CSA/ATEX/IEC Approved

### **Hammer Union Specifications**





### **Performance**

- Accuracy (linearity, hysteresis, & repeatability): ±0.25% of full scale (BFSL)
- Standard Pressure Ranges: 0-20,000 psis
- Compensated Temp: -40 65°C (-40 150°F)
- Temp Effects on Zero & Span: ±0.026% FSO/°C (±0.01% FSO/°F)
- Life: 10 million cycles minimum



#### Connectivity

Output Signal @ 21°C: 4-20 mA: 3-30 mA max

0-5 VDC: 110 mA inrush current 0-5 VDC: 3.5 mA operating current



#### Environmental

Storage Temp: -50 - 120°C (-50 - 248°F) Operating Temp: -40 - 85°C (-40 - 185°F)

Enclosure Protection: IP67



#### Certification

- CSA/cCSAus Contract #237484
- IS: Class 1, Division 1; Groups C & D Class 1, Zone 0, AEx ia IIB T4 Ex ia IIB T4 Ambient: -40 - 85°C
- ATEX: 4-20 mA CE 0344 EX II 1G Ex ia IIB T4 Ga  $(Ta = -40^{\circ}C \text{ to } +85^{\circ}C)$
- IEC: 4-20 mA EX ia IIB T4 Ga (Ta = -40°C to +85°C)

### **Electrical**

- Supply Voltage: 10-30 VDC on sensor
- Loop Resistance: 1125 ohms @ 30 VDC decreasing linearly to 0 ohms @ 10 VDC
- Insulation Resistance: >100 megohms @ 500 VAC, 70°C
- Shunt Cal: 100% of full scale output





# **Physical**

- Wetted Materials: Conforms to NACE MR-01-75 and ISO 15156-3 standards
- Incoloy



### **Options**

Part Number: HU - L  $\_$  - IS -  $\_$  - E  $\_$  - P  $\_$  - K  $\_$  E

#### A. Output

- □ **L24** 4-20 mA with Cal Shunt
- □ **L27** 0-5 VDC

#### **B. Pressure Range**

0 - 5,000 psis □ 5K 0 - 6,000 psis □ 6K □ 10K 0 - 10,000 psis □ 15K 0 - 15,000 psis □ 20K 0 - 20,000 psis

#### C. Electrical Connection

- □ E1 4 pin 'Mini' 5 pin 'Mini' □ **E2**
- 4 pin Threaded MS3102 (0-5V) □ E3
- 6 pin Bayonet (0-5V) □ **E4**
- 1/2 NPT coupling flying leads □ **E5**
- 1/2 NPT coupling with junction box □ **E10**
- 4 pin Threaded MS3102 □ **E26**
- □ **E27** 6 pin Bayonet
- 6 pin Bayonet □ **E29**
- □ **E32** 4 pin Threaded MS3102

#### D. Fitting

- □ P34 Large Hammer Union 1502 Weco fitting □ **P35** Small Hammer Union 2202 Weco fitting
- Large Welded Hammer Union 1502 Weco fitting □ **P36** □ **P37**
- Small Welded Hammer Union 2202 Weco fitting

#### E. Enclosure

- □ K0 No options (standard)
- □ K7 With handle\*
- □ K1 With protective cage assembly\*



<sup>\*</sup>Consult factory

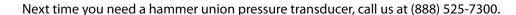
# **HU Hammer Union Pressure Transducer**



### **Built for the Toughest Applications**

Automation Products Group, Inc. brings you the highest quality hammer union pressure transducer on the market.

There's a reason why so many are switching to the HU hammer union pressure transducer from APG. We always use a NACE compliant nickel alloy and welded construction for the toughest applications in Oil & Gas drilling and production.





### **Short Lead Times**

As little as 2 weeks

### **Haz Location Certifications**

- Class 1, Division 1; Groups C & D Class 1, Zone 0
- ATEX II 1G Ex ia IIB T4 Ga
- IECEx EX ia IIB T4 Ga

### **Drain Holes**

• It's all about the details

## **NACE Compliant Nickel Alloy**

- NACE MR-01-75
- ISO 15156-3
- We never sacrifice quality



## **Optional Halo Cage**

• Toughest cage design on the market

### **Wide Top Access**

• Just another way we make it easy on you

## Welded Construction

- Built for high vibration
- Field-proven in applications such as Measurement While Drilling

## **1502 &** 2202 Fittings

1502 shown, 2202 available