The Hammer Union Pressure Transmitter is designed for the rugged environments of land based and offshore drilling installations including Mud Logging and Measurement while drilling.

Features

- Ranges to 20,000 psi
- 4-20 mA or 0-5 VDC output
- WECO® 2002/2202 fitting for 2" line
- Exceptional shock and vibration resistance
- ±0.25% accuracy of full scale
- CSA/ATEX/IECEx Approved
Hammer Union 2002/2202 Specifications

**Performance**
- **Accuracy** (linearity, hysteresis, & repeatability): ±0.25% of full scale (BFSL)
- **Standard Pressure Ranges**: 0-20,000 psis
- **Overpressure**: 1.5 times full scale, 22.5 kpsi, or limit of WECO® fitting, whichever is smallest
- **Burst Pressure**: 3 times full scale, 22.5 kpsi, or limit of WECO® fitting, whichever is smallest
- **Compensated Temp**: -40 - 65ºC (-40 - 150ºF)
- **Temp Effects on Zero & Span**: ±0.026% FSO/ºC (±0.01% FSO/ºF)
- **Life**: 10 million cycles minimum
- **Frequency Response**: Less than 5mS

**Environmental**
- **Storage Temp**: -50 - 120ºC (-50 - 248ºF)
- **Operating Temp**: -40 - 85ºC (-40 - 185ºF)
- **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 - 85ºC  
- **ATEX**: 4-20 mA  
  CE 0344 EX II 1G Ex ia IIB T4 Ga  
  (Ta = -40ºC to +85ºC)  
- **IECEx**: 4-20 mA  
  EX ia IIB T4 Ga (Ta= -40ºC to +85ºC)

**Connectivity**
- **Output Signal @ 21ºC**:  
  4-20 mA: 3-30 mA max  
  0-5 VDC: 110 mA inrush current  
  0-5 VDC: 3.5 mA operating current

**Electrical**
- **Supply Voltage**: 10-28 VDC on sensor
- **Loop Resistance**: 1012 ohms @ 28 VDC decreasing linearly to 0 ohms @ 10 VDC
- **Insulation Resistance**: >100 megaohms @ 500 VAC, 70ºC
- **Shunt Cal**: 100% of full scale output

**Physical**
- **Wetted Materials**: Conforms to NACE MR-01-75 and ISO 15156-3 standards
- **Incoloy**
Model Configuration Options

Model Number: HU - _____ - IS - _____ - PSIS - _____ - _____ - _____

A. Output
- □ L24 4-20 mA
- □ L27 0-5 VDC

B. Pressure Range
- □ 5K 0 - 5,000 psis
- □ 6K 0 - 6,000 psis
- □ 10K 0 - 10,000 psis
- □ 15K 0 - 15,000 psis
- □ 20K 0 - 20,000 psis

C. Electrical Connection

4-20 mA Output Options
- □ E1 4 pin 'Mini' (w/ Shunt Cal)
- □ E2 5 pin 'Mini' (w/ Shunt Cal)
- □ E6 3 pin Turck Minifast [RSFVL36]
- □ E7 4 pin Reverse Bayonet (w/ Shunt Cal)
- □ E8 5 pin Threaded MS3102 (w/ Shunt Cal)
- □ E9 3 pin Threaded MS3102
- □ E11 4 pin Threaded MS3102
- □ E13 7 pin Jupiter/Souriau (w/ Shunt Cal)
- □ E15 6 pin Bayonet (w/ switched Shunt Cal)
- □ E18 4 pin Rota (w/ Shunt Cal)
- □ E20 4 pin Turck minifast [P-RSFV 40-0.3]
- □ E28 6 pin Bayonet
- □ E40 3 pin Bayonet (w/ Shunt Cal)
- □ E45 6 pin Bayonet (w/ Shunt Cal)
- □ E49 6 pin Bayonet (w/ Shunt Cal)

0-5 VDC Output Options
- □ E3 4 pin Threaded MS3102
- □ E14 6 pin Bayonet (w/ switched Shunt Cal)

4-20 mA Direct Wiring Options w/ Shunt Cal
- □ E5 1/2 NPT coupling, flying leads
- □ E17 1/2 NPT coupling, 10' cable, flying leads

D. Fitting
- □ P35 Small HU 2002/2202 WECO® fitting
- □ P37 Welded HU 2002/2202 WECO® fitting

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

*Consult factory

Common Model Configurations

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Model Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HU-L24-IS-5K-PSIS-E15-P37-K0</td>
<td>4-20mA Output, 6 pin Bayonet w/Shunt Cal, 0-5,000 PSIS, Welded 2002/2202 fitting</td>
</tr>
<tr>
<td>HU-L24-IS-10K-PSIS-E15-P37-K0</td>
<td>4-20mA Output, 6 pin Bayonet w/Shunt Cal, 0-10,000 PSIS, Welded 2002/2202 fitting</td>
</tr>
<tr>
<td>HU-L24-IS-15K-PSIS-E15-P37-K0</td>
<td>4-20mA Output, 6 pin Bayonet w/Shunt Cal, 0-15,000 PSIS, Welded 2002/2202 fitting</td>
</tr>
<tr>
<td>HU-L24-IS-5K-PSIS-E16-P37-K0</td>
<td>4-20mA Output, 4 pin threaded MS1302 w/Shunt Cal, 0-5,000 PSIS, Welded 2002/2202 fitting</td>
</tr>
<tr>
<td>HU-L24-IS-10K-PSIS-E16-P37-K0</td>
<td>4-20mA Output, 4 pin threaded MS1302 w/Shunt Cal, 0-10,000 PSIS, Welded 2002/2202 fitting</td>
</tr>
<tr>
<td>HU-L24-IS-15K-PSIS-E16-P37-K0</td>
<td>4-20mA Output, 4 pin threaded MS1302 w/Shunt Cal, 0-15,000 PSIS, Welded 2002/2202 fitting</td>
</tr>
<tr>
<td>HU-L24-IS-20K-PSIS-E16-P37-K0</td>
<td>4-20mA Output, 4 pin threaded MS1302 w/Shunt Cal, 0-20,000 PSIS, Welded 2002/2202 fitting</td>
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Hammer Union Pressure Transmitter

Built for the Toughest Applications

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

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

Next time you need a hammer union pressure transmitter, call us at (888) 525-7300.

- **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**
  - Saves your connector
  - Prevents leaks

- **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 & 2002/2202 Fittings**
  - 1502 shown, 2002/2202 available