

## Intrinsically Safe Hammer Union Pressure Transmitter



The Hammer Union Pressure Transmitter is an 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
- 1502 or 2002 / 2202 fitting
- Exceptional shock and vibration resistance
- $\pm 0.25\%$  accuracy of full scale
- CSA/ATEX/IECEX Approved

### Datos fiscales:

Corporación Eco Industrial y Comercial S.A de C.V.  
Plan de San Luis # 101 Int. 801 Col. El Coecillo  
León, Gto. C.P. 37260

### Oficina de Ventas:

Cd. de México  
Cd. de Querétaro  
Nextel

Tel (55) 5510-4265  
Tel (442) 212-8075  
Tel 01 (442) 413 7630  
Tel 01 (442) 410 1565

## Hammer Union Specifications



### Performance

- Accuracy (linearity, hysteresis, & repeatability):  $\pm 0.25\%$  of full scale (BFSL)
- Standard Pressure Ranges: 0-20,000 psis
- Overpressure - 1.5 times full scale (applies to sensor only, not fitting)
- Burst Pressure - 3 times full scale (applies to sensor only, not fitting)
- Compensated Temp: -40 - 65°C (-40 - 150°F)
- Temp Effects on Zero & Span:  $\pm 0.026\%$  FSO/°C ( $\pm 0.01\%$  FSO/°F)
- Life: 10 million cycles minimum
- Frequency Response: Less than 5mS

### Environmental

- Storage Temp: -50 - 120°C (-50 - 248°F)
- Operating Temp: -40 - 85°C (-40 - 185°F)
- Enclosure Protection: IP67

### Certification

- CSA/cSAus 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°C to +85°C)
- IECEx: 4-20 mA  
EX ia IIB T4 Ga (Ta = -40°C to +85°C)

### 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

### 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, 70°C
- Shunt Cal: 100% of full scale output



### Physical

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

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## Options

Part Number: HU -      - IS -      - PSIS -      -      -     

A                      B                      C                      D                      E

### A. Output

- L24**            4-20 mA with Cal Shunt
- 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 (2002 fitting only)

### C. Electrical Connection

- E1**            4 pin 'Mini'
- E2**            5 pin 'Mini'
- E3**            4 pin Threaded MS3102 (0-5V)
- E4**            6 pin Bayonet (0-5V)
- E5**            1/2 NPT coupling flying leads
- E6**            3 pin Turck Minifast (RSFVL36)
- E9**            3 pin Threaded MS3102 (4-20 mA loop)
- E10**           Junction Box (1502 only)
- E12**           3 pin Bayonet (4-20 mA loop)
- E13**           7 pin Jupiter (4-20 mA loop w/Shunt Cal)
- E18**           4 pin Rota (4-20 mA loop w/Shunt Cal)
- E20**           4 pin Turck minifast (P-RSFV 40-0.3)

### D. Fitting

- P34**            Large Hammer Union 1502 Weco fitting
- P35**            Small Hammer Union 2002 / 2202 Weco fitting
- P36**            Large Welded Hammer Union 1502 Weco fitting
- P37**            Small Welded Hammer Union 2002 / 2202 Weco fitting

### E. Enclosure

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

\*Consult factory



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## 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 APG hammer union pressure transducer. We always 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 transducer, 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

- 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 & 2002/2202 Fittings

- 1502 shown, 2002/2202 available



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