

# Hammer Union 1502 Fitting Pressure Transmitter



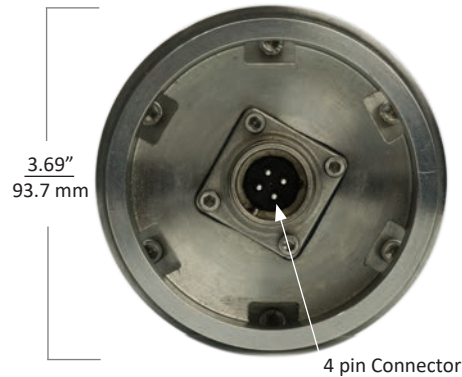
The Hammer Union Pressure Transmitter is designed for the rugged environments of land based and offshore drilling installations including Mud Logging and Measurement while drilling.

## Features

- Ranges to 15,000 psi
- 4-20 mA or 0-5 VDC output
- WECO® 1502 fitting for 2" line
- Exceptional shock and vibration resistance
- $\pm 0.25\%$  accuracy of full scale
- CSA/ATEX/IECEX Approved



# Hammer Union 1502 Specifications



## Performance

- Accuracy (linearity, hysteresis, & repeatability):  $\pm 0.25\%$  of full scale (BFSL)
- Standard Pressure Ranges: 0-20,000 psia
- 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 - 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/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°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

# Model Configuration Options

Model Number: HU -      - IS -      - PSIS -      -      -       
                                   A                  B                  C                  D                  E

## 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

## 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
- E10**            Junction Box
- E17**            1/2 NPT coupling, 10' cable, flying leads

## D. Fitting

- P34**            Large HU 1502 WECO® fitting
- P36**            Large Welded HU 1502 WECO® fitting

## E. Enclosure

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

\*Consult factory

# Common Model Configurations

Model Number	Model Description
HU-L24-IS-5K-PSIS-E15-P36-K0	4-20mA Output, <b>6 pin Bayonet w/Shunt Cal, 0-5,000 PSIS</b> , Welded 1502 fitting
HU-L24-IS-10K-PSIS-E15-P36-K0	4-20mA Output, <b>6 pin Bayonet w/Shunt Cal, 0-10,000 PSIS</b> , Welded 1502 fitting
HU-L24-IS-15K-PSIS-E15-P36-K0	4-20mA Output, <b>6 pin Bayonet w/Shunt Cal, 0-15,000 PSIS</b> , Welded 1502 fitting
HU-L24-IS-5K-PSIS-E16-P36-K0	4-20mA Output, <b>4 pin threaded MS1302 w/Shunt Cal, 0-5,000 PSIS</b> , Welded 1502 fitting
HU-L24-IS-10K-PSIS-E16-P36-K0	4-20mA Output, <b>4 pin threaded MS1302 w/Shunt Cal, 0-10,000 PSIS</b> , Welded 1502 fitting
HU-L24-IS-15K-PSIS-E16-P36-K0	4-20mA Output, <b>4 pin threaded MS1302 w/Shunt Cal, 0-15,000 PSIS</b> , Welded 1502 fitting



# 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

