



## WECO® “HAMMER” UNION TEMPERATURE TRANSMITTER Models 271, 371

Designed specifically for use with either WECO® 2” 1502 or 2” 2002 Wing Union Fittings for the high pressure /vibration applications such as Cementing, Fracturing, Mud Pressure Measurement & Acidizing.



### FEATURES:

- Provides accurate temperature readings in WECO® style fitting
- Rated to 22,500 PSI
- Corrosion resistant materials meet NACE MRO175 Guidelines
- 0-5 VDC or 4-20 mA outputs
- High temp operation option to 250°F

### Accuracy:

- Static Error (Includes Hysteresis, Non-linearity, Non-Repeatability) ±0.75% FSO

### Zero Balance at 70° F:

- (Model 271) - 0.0 V ±0.5% FSO
- (Model 371) - 4.0 mA ±0.5% FSO

### Full Scale Output:

- (Model 271) - 5 VDC ±0.5% FSO
- (Model 371) - 16mA, ±0.5% FSO

### Stability: ±0.1% FSO/yr

### Min & Max Process Temperature Limits:

- -65° F to +250° F

### Electricals:

- Excitation Voltage:  
(Model 271) - 9-36 VDC  
(Model 371) - 9-36 VDC
- Output Current:  
(Model 271) - 0-5 VDC output  
(Model 371) - 4-20 mA output
- Wiring:  
(Model 271) - 3 Wire (see pin out chart)  
(Model 371) - 2 wire loop (see pin out chart)
- Insulation Resistance:  
(Model 271 & 371) - >100m ohms at 50 VDC.
- Connector Style: See option codes

### Mechanicals:

- Process Connection: WECO® Union 2” 1502, 2202 or 2002
- Max Operating Pressure: 22,500 psi
- Std Wetted Materials: SST meets - NACE MRO175 Guidelines or Inconel.
- Upper Housing: 300 series SST
- Weight: -5 lbs

### WIRING: 271

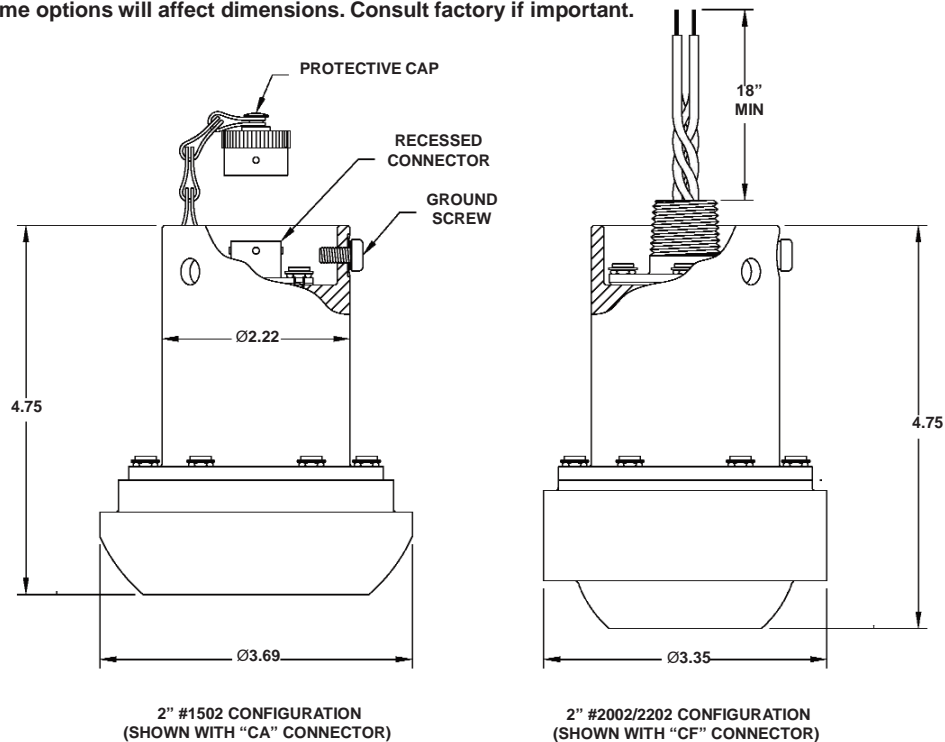
A/1 +EXC. (RED)  
B/2 +SIGNAL (BLUE)  
C/3 -EXC./SIGNAL (BLACK)  
D/4 NC\*  
E/5 NC\*  
F/6 NC\*

### 371

+EXC./SIGNAL (RED)  
-EXC./SIGNAL (BLACK)  
NC\*  
NC\*  
NC\*  
NC\*

\* Optional Shunt Cal connections

Some options will affect dimensions. Consult factory if important.





## WECO® “HAMMER” UNION TEMPERATURE TRANSMITTER

### Models 271, 371

Typical configurations (consult factory for more options)

#### MODELS

**271** 0 - 5 Vdc

**371** 4 - 20 mA

#### PROCESS CONNECTION

**A** 2" 1502 (Inconel Construction)

**B** 2" 2002 (Inconel)

**C** 2" 2202 (Inconel - Meets NACE Guidelines)

**D** 2" 1502 (Inconel - Meets NACE Guidelines)

**G** 2" 1502 (SST - Meets NACE Guidelines)

**H** 2" 2002 (SST - Meets NACE Guidelines)

#### CALIBRATED TEMPERATURE RANGE (° F)

**00** 0° to 250°

**01** -40° to 250°

(Consult factory for more ranges)

#### CONNECTOR TYPE

**CA** PTO2E-10-6P (Bendix 6 Pin Style)

**CF** 1/2" NPT(M) with 18" wire Leads 18 awg

**DK** GC379214S-2P (Glenair 4-Pin)

**DM** MS3102E-14S-2P (4-Pin)

**DO** RECM10TPN04-16 (Jupiter 4-Pin style)

**DP** 1R4006A20A1201 (Brad Harrison/Turck style)

#### OPTIONS

**GB** Alternate electrical output (e.g 1-5 VDC)

**GC** Special Calibration run

**MR** Alternate Pin out / wiring

**NC** Removable carrying handle

**NH** Welded dual carrying handle

Consult factory for other options, such as carrying handle, optional materials, electrical connectors and replacement fasteners.

Consult WECO® manufacturer for published pressure maximums. WECO® is a Federally Registered Trademark with FMC Technologies.

#### NOTE:

Specifications reflect standard product, improved performance / mechanical options available.

Modifications may alter specs, consult factory for more information.