



Pressure, Level & Temperature Transmitters & Transducers

2770 Long Road, Grand Island, NY 14072 USA

Tel. (716) 773-9300 • Fax (716) 773-5019

sales@gp50.com • www.gp50.com

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:

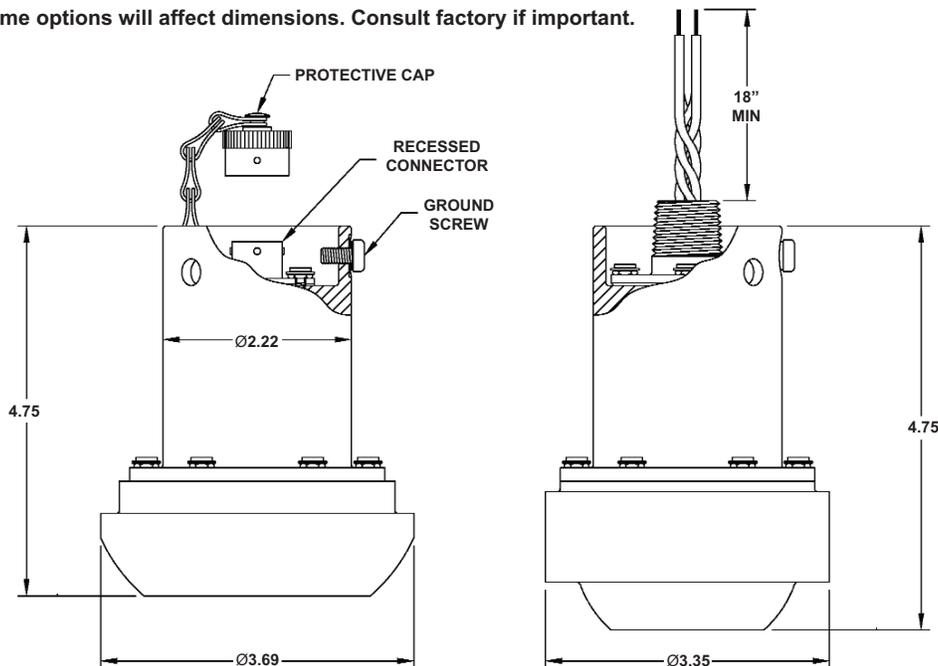
- Process Connection: WECO® Union 2” 1502, 2202 or 2002
- Max Operating Pressure: 22,500 psi
- Std Wetted Materials: SST meets - NACE MRO175 Guidelines or Inconel.
- Upper Housing: 300 series SST
- Weight: -5 lbs

WIRING:

	271	371
A/1	+EXC. (RED)	+EXC./SIGNAL (RED)
B/2	+SIGNAL (BLUE)	-EXC./SIGNAL (BLACK)
C/3	-EXC./SIGNAL (BLACK)	NC*
D/4	NC*	NC*
E/5	NC*	NC*
F/6	NC*	NC*

* Optional Shunt Cal connections

Some options will affect dimensions. Consult factory if important.



2” #1502 CONFIGURATION
(SHOWN WITH “CA” CONNECTOR)

2” #2002/2202 CONFIGURATION
(SHOWN WITH “CF” CONNECTOR)

A5SL-71.00 Rev A

GP:50 reserves the right to make product improvements and amendments to the product specifications stated throughout this brochure without prior notification. Please contact the factory on all critical dimensions and specifications for verification.



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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.