

# SERIES TH

## HEAVY DUTY, HIGH ACCURACY TRANSMITTERS



TH series transmitters are compatible with Reotemp DM series digital indicators (p.33). Each Reotemp transmitter is inspected and calibrated prior to shipment, to ensure it is 100% "Ready-to-Go" right out of the box!

- Heavy-duty, 0.25% or 0.1% accuracy
- Standard Internal, or Flush diaphragm
- All-stainless welded Body and Wetted Parts
- Very low to very high Pressure Ranges
- Engineered for high stability, shock resistance, and durability - (internal electronics potted in silicone gel.)
- Internal zero & span adjustments
- 4-20 mA, or choice of several voltage outputs

### Applications:

Process control, hydraulics, lab or test, where higher performance is needed. Model THF with flush diaphragm is suitable for measurement of slurries or viscous media.

### Specifications: (Also see General specs, page 25)

**Output Signal:** 4-20 mA, 2 wire (std)  
0-5 VDC, or 1-10 VDC (3 wire)

**Pressure Ranges:** Vacuum, compound, pressure to 60,000 PSI;  
gauge and absolute

Proof & Burst Pressures	Proof pressure	Burst pressure
0/5 thru 0/200psi	3 x range	3.8 x range
0/300 thru 0/10,000 psi	1.75 x range	4 x range
0/15,000 psi	1.5 x range	3 x range
0/20,000 thru 0/120,000 psi	1.2 x range	1.5 x range

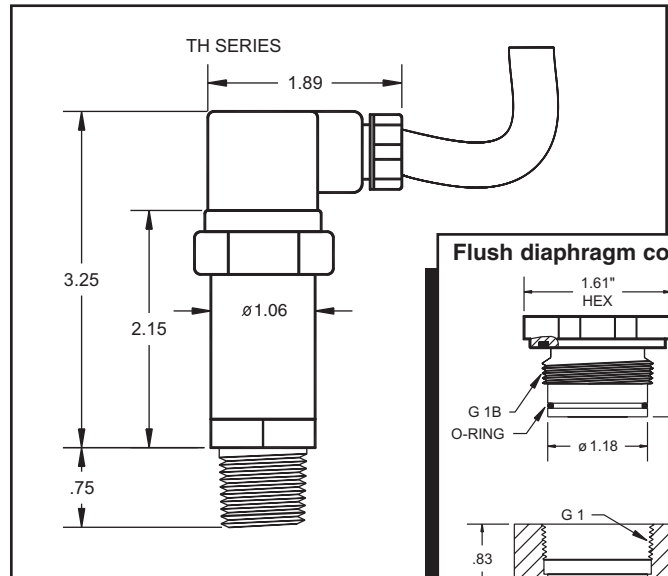
**Accuracy (BFSL):** +/- 0.25% of span (standard)  
(incl. repeatability, hysteresis, and linearity) +/- 0.11% of span (optional)

**Adjustment:** +/- 10% full scale, zero & span

**Input:** 10-30 VDC (for current output)  
14-30 VDC (for voltage output)

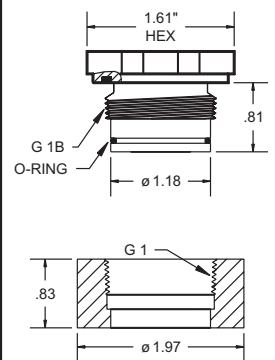
**Temperature:** Compensated: +32 to 175°F (0/80°C)  
Effect: +/- 0.01% of span / deg F (on zero and span)  
Media: -20 to 212°F (-30/100°C)  
Ambient: -15 to 175°F (-10 to 80°C)

**Weight:** Approx. 7.2 oz (187g)



Note: dimensions are nominal and may vary. Check with Reotemp sales if dimensions are critical.

### Flush diaphragm connections



Weld-in Adapter XTWA-E

## HOW TO ORDER

TH — **1** — **P20** — **2** — **A** — **4** — **C**

TH1 = High-Accuracy Transmitter- (std internal diaphragm)	THF = High Accuracy Transmitter- (special flush diaphragm)	Range:	Accuracy:	Output Signal:	Process Connection TH1:	Electrical Connection:	Options:
		<b>SEE PAGE 35 FOR RANGE CODES</b>					
		Vacuum, Compound, Pressure: 0/55INWC...to 60,000psi (TH1) 0/55INWC...to 7,500psi (THF)	<b>2</b> = +/-0.25% Full Scale (std) <b>3</b> = +/-0.12% Full Scale	<b>A</b> = 4-20mA, 2 wire (std) <b>B</b> = 0-5 VDC, 3 wire <b>C</b> = 1-5 VDC, 3 wire <b>E</b> = 0-10 VDC, 3 wire	<b>2</b> = 1/2" NPT (std) <b>4</b> = 1/4" NPT <b>9</b> = 9/16-18 aminco (std on 30,000 to 60,000 psi)	<b>C</b> = Hirschmann (w/36" cable) <b>D</b> = Hirschmann (DIN 43650) <b>F</b> = 6 pin Bendix* <b>J</b> = 1/2" NPT conduit (w/36" cable) <b>N</b> = 1/2" NPTF ISO 4400 flex conduit conn.	<b>1</b> = Threaded Orifice (SS, M3.5) <b>2</b> = Restrictor Screw Weld-in adapters for G1, G1/2 Diaphragm Seals, Snubbers

\*Mating Connector sold separately