

INDUSTRIAL PRESSURE TRANSMITTER



TA with Hirschmann
(DIN 43650 Form A)



TA with M12 4-Pin



Diaphragm Seal
Compatible



FEATURES / BENEFITS

- 0.25% Accuracy
- All-Stainless Body and Wetted Parts
- 4-20mA or Voltage Output
- Rugged, with Protection from Shock, and Over-range
- Excellent Long-term Stability

SPECIFICATIONS

Output Signal 4-20mA, 2-Wire
0-5V, 0-10V, 1-5V, 1-6V, 0.5-4.5V,
0.5-2.5V (3-Wire)
Additional Outputs Upon Request

Measuring Principle High-Stability Silicon Piezoresistive

Pressure Ranges Vacuum, Compound, Absolute,
Pressure to 10,000psi

Over Pressure	2X Full Scale (Vac to 3,000 psi) 1.25X Full Scale (>3,000 psi to 10,000 psi)
Burst Pressure	4X Full Scale or 15,000 psi (Whichever is Lower)

Accuracy NLH at 77°F (BSL) ±0.25% of span (Optional ± 0.5%)

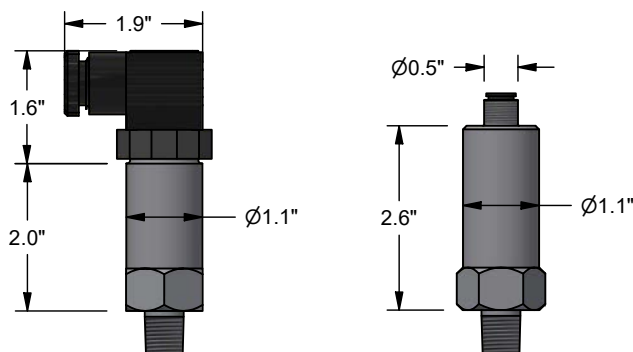
Input 11-28 VDC (4-20mA, 0-5V, 1-5V, 1-6V)
15-28 VDC (0-10V)
Additional inputs, See Specifications Below.

Temperature Effect: ±0.02% FS/°F (>1 Bar),
±0.03% FS/°F (≤1 Bar)
Media: -40 to 257°F
Storage: -40 to 176°F (Hirschmann
DIN A, M12)
-4 to 176°F (Cable Type - PE)

Weight ≤ 9.5 oz

Environmental Rating IP65 (Hirschmann, M12)
IP68 (Cable)

Threaded Flush Face Process Connections (Optional) See Series DSTF specifications for details.



Hirschmann
(DIN 43650 Form A)

M12 4-Pin

Note: Dimensions are nominal and may vary.
Check with Reotemp sales if dimensions are critical. Other case styles available.

INDUSTRIAL PRESSURE TRANSMITTER

SPECIFICATIONS

Electrical Data	Output / Supply voltage	4 - 20 mA: 11...28 VDC (24 VDC) 0 - 5 VDC: 11...28 VDC (24 VDC) 1 - 5 VDC: 11...28 VDC (24 VDC) 1 - 6 VDC: 11...28 VDC (24 VDC) 0 - 10 VDC: 15...28 VDC (24 VDC) 0.5-2.5V Ratiometric (H): 5V+/-0.1VDC 0.5-2.5V Ratiometric (J): 3.3V+/-0.1VDC 0.5-4.5V Ratiometric: 5V+/-0.1VDC	
	Reverse Polarity Protection	Yes	
	Media Temperature	-40°F to 257°F	
	Storage Temperature	-40 to 176°F (Hirschmann DIN A, M12) -4 to 176°F (Cable Type - PE)	
	Protection	IP65 (Hirschmann, M12), IP68 (Cable)	
	Vibration	10g (55Hz ~ 2,000 Hz)	
	Shock	100g / 11ms	
	Mechanical Data	Isolated Diaphragm (Wetted Part)	Stainless Steel 316L/ Other Alloys Available. Contact Factory
		Pressure Port (Wetted Part)	Stainless Steel 316L/ Other Alloys Available. Contact Factory
		Sealing	FKM
Housing		Stainless Steel 304/316L	
Weight		≤ 9.5 oz	
Mounting Torque		18.5 in-lbs	

ACCURACY

Pressure Type	Range	Accuracy
Gauge	0/50 INWC to 0/3 psi	±.5% FS
	0/5 to 0/10,000 psi	±0.25% FS (or ±0.5% FS if Selected)
Absolute A	0/15 psia to 0/300 psia	±0.25% FS (or ±0.5% FS if Selected)
Compound (Negative & Positive Pressure)	-14.7/0/14.7 to -14.7/0/500 psi	±0.25% FS (or ±0.5% FS if Selected)

Test Conditions:

Environment Temperature: 20°C ±5°C

Relative Humidity: 45% ~ 75%

Note: Ranges Above 500psi are Sealed Gauge Transmitters with a Fixed Reference Pressure.

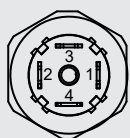
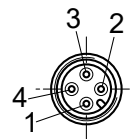

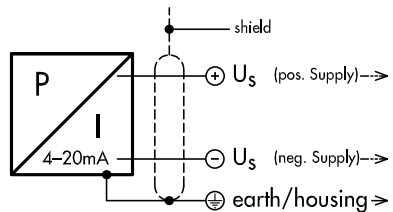
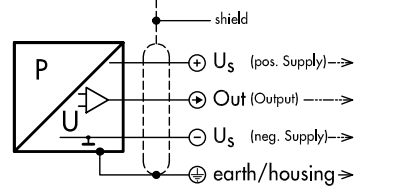
INDUSTRIAL PRESSURE TRANSMITTER

OUTPUT SIGNALS

Output Signal	Power Supply	Output Format	Load Resistance
4mA ~ 20mA DC	11V ~ 28V DC	2-Wire	$\leq(U-11)/0.02(\Omega)$
0V ~ 5V DC			
1V ~ 5V DC			
1V ~ 6V DC			
0V ~ 10V DC	15V ~ 28V DC	3-Wire	$\leq 10k(\Omega)$
0.5-2.5 VDC Ratiometric (H)	5V+/-0.1VDC		
0.5-2.5 VDC Ratiometric (J)	3.3V+/-0.1VDC		
0.5-4.5 VDC Ratiometric	5V+/-0.1VDC		

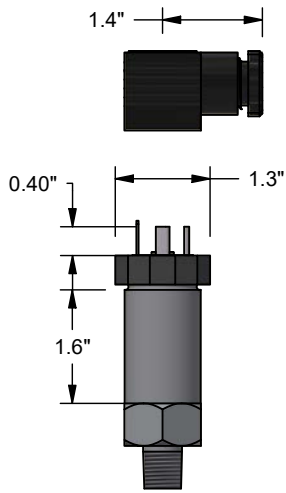
TA Electrical Connection

TRANSMITTERS

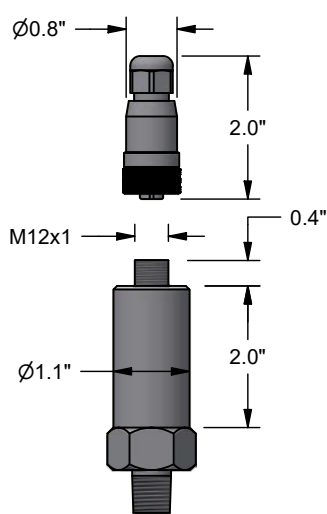
		Protection / Electrical Connection		
		IP65	IP65	IP68
		Hirschmann DIN A	M12x1 4-pole	Cable Out 1/2" NPT Conduit
				
Output Signal	 <p>4-20mA</p>	<p>1</p> <p>2</p> <p>4</p>	<p>(1) Brown</p> <p>(3) Blue</p> <p>(4) Black</p>	<p>Red</p> <p>Black</p> <p>Green/Yellow</p>
	 <p>0/5 VDC, 1/5 VDC, 1/6 VDC, 0/10VDC, 0.5-2.5 VDC Ratiometric, 0.5-4.5 VDC Ratiometric</p>	<p>1</p> <p>2</p> <p>3</p> <p>4</p>	<p>(1) Brown</p> <p>(2) White</p> <p>(3) Blue</p> <p>(4) Black</p>	<p>Red</p> <p>White</p> <p>Black</p> <p>Green/Yellow</p>

INDUSTRIAL PRESSURE TRANSMITTER

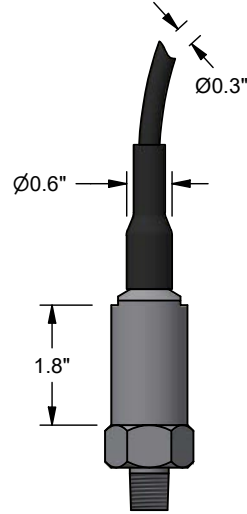
TA Dimension



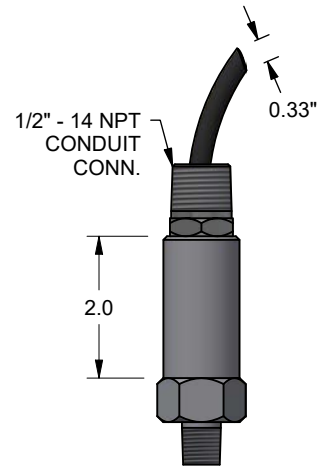
**Standard Hirschmann
(DIN 43650 Form A)**



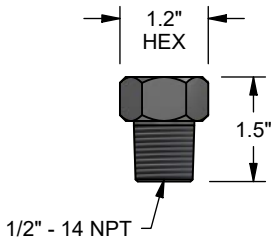
M12 x 1 (4-Pin)



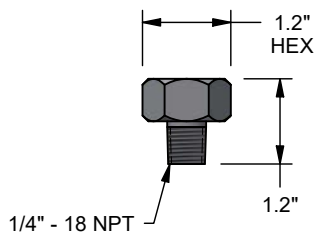
Cable Out



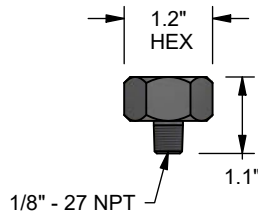
1/2" Conduit w/ Cable



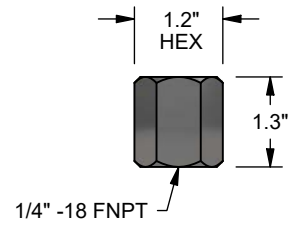
1/2" NPT



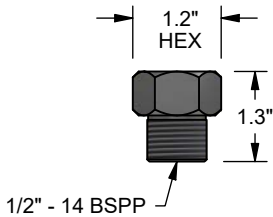
1/4" NPT



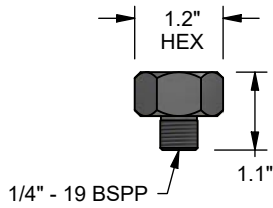
1/8" NPT



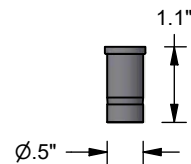
1/4" FNPT



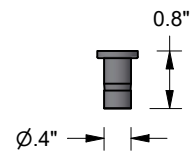
G1/2 (1/2" BSPP)



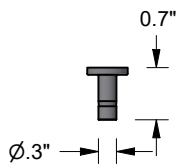
G1/4 (1/4" BSPP)



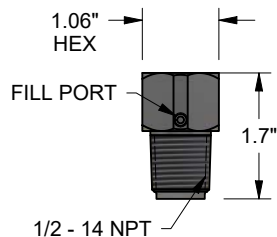
1/2" Tube Stub Fitting



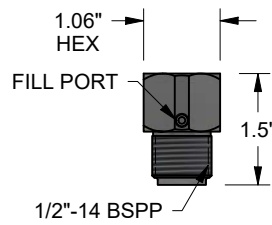
3/8" Tube Stub Fitting



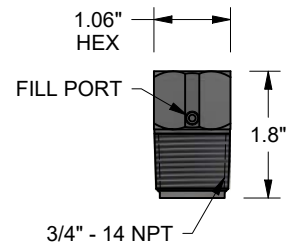
1/4" Tube Stub Fitting



1/2" NPT Flush Face



1/2" BSPP Flush Face



3/4" NPT Flush Face

TRANSMITTER TECHNICAL REFERENCE

SERIES		T90	TA	TSTA	TSA/ TSB	TSC	TSTP/ TSTD	TSTC	TG1	TP/ TDS	TC	TE	TH1	THX	TL1
Code		VACUUM													
P01	-30 inHg/0 psi	✓	✓	✓	✓	✓		✓				✓	✓	✓	
P01R	-14.5/0 psi							✓			✓				
Code		COMPOUND RANGES													
P02	-30 inHg/15psi	✓	✓	✓	✓	✓			✓				✓	✓	
P03	-30 inHg/30 psi	✓	✓	✓	✓	✓			✓			✓	✓		
P04	-30 inHg/60 psi	✓	✓	✓	✓	✓			✓						
P05	-30 inHg/100 psi	✓	✓	✓	✓	✓			✓			✓			
P06	-30 inHg/150 psi	✓	✓	✓	✓	✓			✓					✓	
P07	-30 inHg/200 psi	✓	✓	✓								✓			
P08	-30 inHg/300 psi	✓	✓	✓	✓	✓			✓						
P02R	-14.5/0/15 psi							✓			✓				
P03R	-14.5/0/30 psi						✓	✓		✓	✓				
P04R	-14.5/0/60 psi						✓	✓		✓	✓				
P05R	-14.5/0/100 psi						✓	✓		✓	✓				
P06R	-14.5/0/150 psi						✓	✓		✓	✓				
P07R	-14.5/0/200 psi						✓	✓		✓	✓				
P08R	-14.5/0/300 psi						✓	✓		✓	✓				
Code		PRESSURE RANGES													
IN50	0/50 inH ₂ O	✓	✓	✓				✓			✓		✓		✓
IN100	0/100 inH ₂ O	✓	✓	✓				✓	✓		✓		✓		✓
IN200	0/200 inH ₂ O	✓	✓	✓				✓			✓				✓
L11	0/55 INWC	✓	✓	✓		✓		✓			✓		✓		
L12	0/80 INWC	✓	✓	✓		✓		✓			✓		✓		
L13	0/140 INWC	✓	✓	✓		✓		✓	✓		✓		✓		
L14	0/280 INWC	✓	✓	✓	✓	✓		✓	✓		✓		✓		
P11	0/2 psi	✓	✓	✓		✓		✓			✓		✓	✓	✓
P12	0/3 psi	✓	✓	✓		✓							✓	✓	✓
P13	0/5 psi	✓	✓	✓	✓	✓		✓	✓		✓		✓	✓	✓
P14	0/10 psi	✓	✓	✓	✓	✓		✓	✓		✓		✓	✓	✓
P15	0/15 psi	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓
P16	0/30 psi	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
P175	0/50psi	✓	✓	✓			✓	✓		✓	✓				
P17	0/60 psi	✓	✓	✓	✓	✓			✓			✓	✓	✓	✓
P18	0/100 psi	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
P195	0/150 psi	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓
P20	0/200 psi	✓	✓	✓	✓	✓		✓	✓			✓	✓	✓	✓
P21	0/300 psi	✓	✓	✓	✓	✓		✓	✓			✓	✓	✓	✓
P26	0/500 psi	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
P23	0/600 psi	✓	✓	✓	✓	✓			✓				✓		
P27	0/750 psi	✓	✓	✓	✓	✓			✓			✓	✓	✓	✓
P25	0/1000 psi	✓	✓	✓	✓	✓		✓	✓			✓	✓	✓	✓
P30	0/1500 psi	✓	✓						✓	✓			✓		
P31	0/2000 psi	✓	✓						✓	✓			✓		
P32	0/3000 psi	✓	✓						✓	✓			✓		
P34	0/5000 psi	✓	✓						✓	✓			✓	✓	
P35	0/6000 psi	✓	✓						✓				✓		
P28	0/7500 psi	✓	✓						✓	✓			✓	✓	
P37	0/10000 psi	✓	✓						✓				✓	✓	
P38	0/15000 psi								✓				✓	✓	
P39	0/20000 psi												✓		
P40	0/30000 psi												✓		
P41	0/40000 psi												✓		
P42	0/50000 psi												✓		
P43	0/60000 psi												✓		
Code		ABSOLUTE RANGES													
P15A	0/15 psia		✓	✓	✓				✓		✓				
P16A	0/30 psia		✓	✓	✓				✓		✓				
P17A	0/60 psia		✓	✓	✓				✓		✓				
P18A	0/100 psia		✓	✓	✓				✓		✓				
P19A	0/150 psia		✓	✓	✓				✓		✓				
P20A	0/200 psia		✓	✓	✓				✓		✓				

TRANSMITTERS

Don't See the Range You Need?
Other ranges may be available, contact REOTEMP customer service for more information.

✓ Indicates that the option is available
Note: Specifications are subject to change.