

EXPLOSION PROOF TRANSMITTER



TE



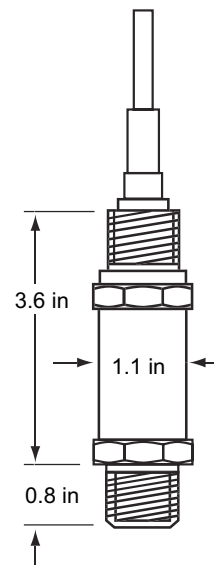
FEATURES / BENEFITS

- $\pm 0.25\%$ Full-scale (BFSL) Accuracy
- All 316SS Welded Body and Elgiloy
- 4-20 mA or Low Power Voltage Outputs
- Rugged, with Protection from Shock, Over-range, and Over-voltage, Internals Potted in Silicone Gel



SPECIFICATIONS

Output Signal	4-20mA, 2-wire (standard), 1-5Vdc		
Pressure Ranges	Vacuum, compound, pressure 0/15 psi to 0/15,000 psi		
		Proof Pressure	Burst Pressure
	0/5 - 0/200 psi	3 x range	3.8 x range
	0/300 - 0/10,000 psi	1.75 x range	4 x range
	0/15,000 psi	1.5 x range	3 x range
Accuracy (BFSL)	±0.25% of span		
Input	10-30Vdc for 4-20mA; 6-30Vdc for low power voltage output (≤ 2mA for power supply ≤ 12Vdc)		
Temperature	Compensated: 32 to 176°F Effect: ±0.011% FS/°F Media and Ambient: -25 to 212°F (-58 to 221°F optional)		
Weight	Approximately 12 oz with 6' of cable		
Environmental Rating	IP67		
Hazardous Approvals	FM and CSA approved: Explosion-proof with entity approve for : Class I, Division 1, Groups A, B, C and D. Dust Ignition-proof with entity approval for class II/III, Division 1, Groups E, F and G. Maximum electrical ratings 30V, 20 mA.		



TE

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

HOW TO ORDER: Choose options to build a part number. For example: **TE1P212AJPVC062-TS**

TE	1	P21	2	A	JPVC06	2	-TS
MODEL	APPROVAL	RANGE	ACCURACY	OUTPUT SIGNAL	ELECTRICAL CONNECTION	PROCESS CONNECTION	OPTIONS
TE = Explosion Proof Industrial Transmitter	1 = FM & CSA Approval A = ATEX Approval	See Transmitter Technical Reference on 66	2 = $\pm 0.25\%$ Full Scale	A = 4-20mA (2-Wire) (Standard) B = 0-5Vdc (3-Wire) C = 1-5Vdc Low Power (3-Wire) E = 0-10Vdc (3-Wire)	JPVC06 = 1/2" MNPT Conduit (6ft. of PVC Cable) JPVC?? = 1/2" MNPT Conduit (?? = ft. of PVC Cable)	2 = 1/2" NPT Male 4 = 1/4" NPT Male	-RS = Threaded Restrictor Screw -TS = Stainless Steel Tag (1-10 Characters) -NC = NACE Compliance

TRANSMITTER TECHNICAL REFERENCE

SPECIFICATIONS

Wetted Parts: Body: 316 SS for ranges under 400 psi, high pressure ranges 17-4PH SS diaphragm and 300 series SS pressure chamber. For TE model: 316 SS for ranges up through 0 psi to 300 psi, 316 SS with Elgiloy ranges 0 psig to 500 psig and higher

Repeatability: 0.05% of scale (model TM, 0.2%)

Hysteresis: 0.1% full-scale

Stability: 0.2% full-scale (model TM, 0.5%)

Burst Pressure: 4 x range

Response Time: <1 ms (between 10-90% of scale),
Model TM: <5ms

Operating Life: 100 million cycles

Electromagnetic Rating: CE compliant to EMC norm, EN61326:1997/A1:1998, RFI, EMI and ESD protection

Electrical Protection: Reverse Polarity, over voltage, and short circuit protection

Shock: Less than $\pm 0.05\%$ full-scale effect for 1,000 g's @ 2ms on any axis (model TM: 600 g's)

Vibration: Less than $\pm 0.01\%$ full scale effect for 15 g's @ 0-2,000 Hz on any axis (model TG: less than 0.05% full scale effect for 20 g's @ 5-2,000 Hz on any axis.)

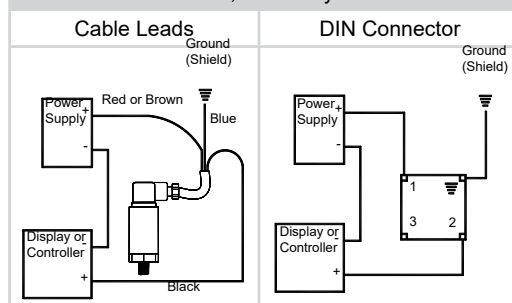
Temperature Range for Storage: -40-212°F

Environmental Protection: NEMA 4x (IP65), Series TL: NEMA 6, IP68

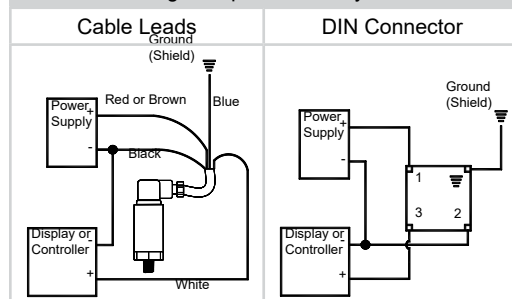
Proof Pressure: At Proof Pressure, zero and span may shift but no permanent damage has occurred.

Burst Pressure: At Burst Pressure, permanent non-recoverable damage may occur.

4-20 mA, 2 Wire System



Voltage Output, 3 Wire System



SERIES		TSA	TSB	TSC	TG1	TM	TE	THX	TL1
Code	Range	VACUUM							
P01	-30"Hg VAC	✓	✓	✓	✓	✓	✓	✓	
Code	Range	COMPOUND RANGES							
P02	-30"Hg/0/15psi	✓	✓	✓	✓			✓	
P03	-30/0/30 psi	✓	✓	✓	✓		✓		
P04	-30/0/60 psi	✓	✓	✓	✓				
P05	-30/0/100 psi	✓	✓	✓	✓		✓		
P06	-30/0/150 psi	✓	✓	✓	✓			✓	
P07	-30/0/200 psi						✓		
P08	-30/0/300 psi	✓	✓	✓	✓				
Code	Range	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	✓	✓	✓	✓	✓	✓	✓	✓
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	Range	ABSOLUTE RANGES							
A15	0/15 psia	✓	✓		✓				
A16	0/30 psia	✓	✓		✓				
A17	0/60 psia	✓	✓		✓				
A18	0/100 psia	✓	✓		✓				
A19	0/150 psia	✓	✓		✓				
A20	0/200 psia	✓	✓		✓				
A21	0/300 psia	✓	✓		✓				

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