GENERAL PURPOSE TRANSMITTER

TG

TG with 1/2" Flush Face Diaphragm

CE

Diaphragm Seal Compatible

FEATURES / BENEFITS

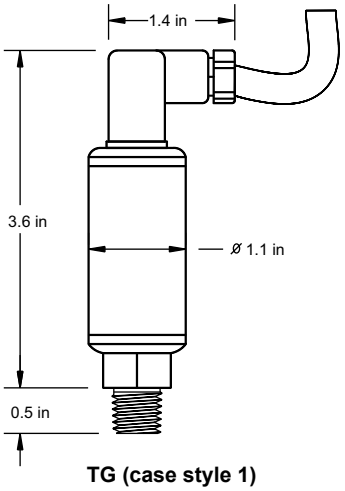
- 0.5% or 0.25% Accuracy
- All-stainless Welded Body and Wetted Parts
- 4-20 mA or Voltage Output
- Rugged, with Protection from Shock, Over-range, and Over-voltage, Internals Potted in Silicone Gel
- Internal Zero and Span Adjustments

SPECIFICATIONS

Output Signal: 4-20mA, 2-wire (standard)
0-5V, 0-10V, 1-6V, or 1-11Vdc (3-wire)
Pressure Ranges: Vacuum, compound, pressure to 15,000 psi; gauge and absolute

	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): ±0.5% of span (standard), ±0.25% of span (optional)
Adjustment: ±10% full scale, zero & span
Input: 12-30 Vdc (for current output), 14-30 Vdc (for voltage output)
Temperature:
Compensated: +32 to 175°F
Effect: ±0.02% of span/°F
Media: -22 to 212°F
Ambient: -40 to 185°F
Weight: Approximately 3.5 oz
Environmental Rating: IP65



TG (case style 1)

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: TG1P181A4A00-TS

TG1 | P18 | 1 | A | 4 | A00 | -TS

MODEL	RANGE	ACCURACY	OUTPUT SIGNAL	PROCESS CONNECTION	ELECTRICAL CONNECTION	OPTIONS
TG1 = General Purpose Transmitter	*See Transmitter Technical Reference on Page 102*	**1** = ±0.5% Full Scale **2** = ±0.25% Full Scale	**A** = 4-20mA (2-wire) (standard) **B** = 0-5Vdc (3-wire) **C** = 1-5Vdc (3-wire) **E** = 0-10Vdc (3-wire)	**4** = 1/4" NPT Male **8** = 1/8" NPT Male **F** = 1/2" NPT Male Flush Face Diaphragm Seal (60 psi Minimum)	**A00** = Mini-Hirschmann, No Cable (DIN EN 175301-803 Form C) **A??** = Mini-Hirschmann (?? = ft. of cable) **J??** = 1/2" NPT Conduit (?? = ft. of cable) ***E00** = 4-pin Bendix ***F00** = 6-pin Bendix ***M00** = M12 x 1 (4-pin) *Mating connector sold separately.	**-RS** = Threaded Restrictor screw **-TS** = Stainless Steel Tag (1-10 Characters) *Optional Assembly to Diaphragm Seal Available*

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.

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 ± 0.05% full-scale effect for 1,000 g's @ 2ms on any axis (model TM: 600 g's)

Vibration: Less than ± 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

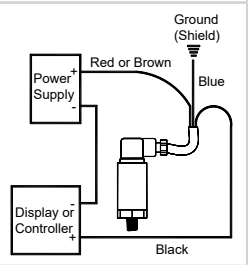
Proof Pressure: At Proof Pressure, zero and span may shift but no permanent damage has occured.

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

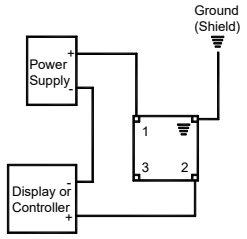
WIRING DIAGRAMS

4-20 mA, 2 Wire System

Cable Leads

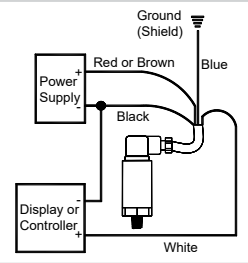


DIN Connector

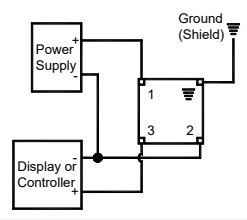


Voltage Output, 3 Wire System

Cable Leads



DIN Connector



SERIES		TSA	TSB	TSC	TG1	TM	TE	TH1	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_2O							✓		✓
IN100	0/100 inH_2O				✓			✓		✓
IN200	0/200 inH_2O									✓
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	✓	✓	✓	✓	✓	✓	✓	✓	✓
P19	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	✓	✓		✓					

✓ Indicates that the option is available

Note: Specifications are subject to change.

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