

Instructions for TG, TM, TS, & TH

INSTRUMENTS

Installation:

Reotemp pressure transmitters/transducers may be mounted in any plane with negligible effect on performance. Although these units are designed and manufactured to withstand substantial shock and vibration, it is recommended that they be mounted in an area of minimal vibration. Always use a wrench on the wrench flats when installing. NEVER use a pipe wrench on the housing or in the area of the electrical connection.

Maintenance/Calibration:

Reotemp pressure transmitters/transducers require no maintenance. Recalibration is dependent on the users Quality Assurance Program. If no program is in place, Reotemp recommends a 1 year cycle.

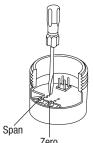
Alignment Procedure (applies only to TG and TH series):

Using a pressure source and meter with adequate accuracy, perform the following steps:

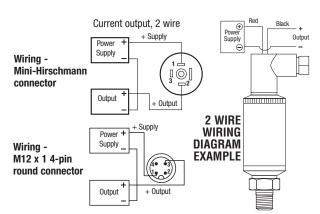
Black

VlaguS

- Open sensor
- With no pressure applied, adjust the "Z" potentiometer for the correct Zero output
- Apply the correct full scale pressure to the unit
- Adjust the "S" potentiometer for the correct Span output



SERIES TG



Load Limitations 4 mA to 20 mA Output Only

 $Vmin = 10V + (.020 \times RL)$

RL = Rs + Rw

RL = Loop Resistance (ohms) Rs = Sense Resistance (ohms)

Rw = Wire Resistance (ohms)

Series 100	4 mA to 20 mA 2-Wire
+ Supply	Red/1/A/1/Brown
+ Output	Black/2/B/3/Blue

Example: Red/1/A/1 = Applicable color wire/din plug number/bendix pin/M12 x 1 pin number/M12 color wire

Load Limitations 4 mA to 20 mA Output Only

 $Vmin = 10V + (.020 \times RL)$

RL = Rs + Rw

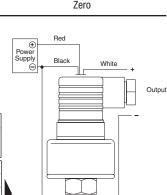
RL = Loop Resistance (ohms) Rs = Sense Resistance (ohms)

Rw = Wire Resistance (ohms)

	Series 600	4 mA to 20 mA 2-Wire
4	+ Supply	Red/1
V	+ Output	Black/2
	Series 600	Voltage Output
	Series 600 + Supply	Voltage Output Red/1

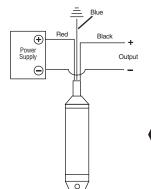
SERIES TM

Example: Red/1 = Applicable color wire/din plua number.



3 WIRE WIRING DIAGRAM EXAMPLE

SERIES TS



2 WIRE WIRING

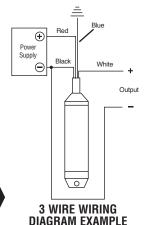
DIAGRAM EXAMPLE

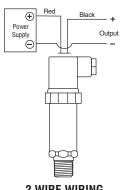
Load Limitations 4 mA to 20 mA Output Only $Vmin = [10V + (.020 \times RL)] - 0.137 \, \text{M} \times 10^{-1}$

RL = Rs + Rw

RL = Loop Resistance (ohms) Rs = Sense Resistance (ohms) Rw = Wire Resistance (ohms)

	Series 612	4 mA to 20 mA 2-Wire
4	+ Supply	Red
•	+ Output	Black
1	Case ground	Blue
	Series 612	Voltage Output
	+ Supply	Red
	Common	Black
	+ Output	White
	Case ground	Blue





2 WIRE WIRING

DIAGRAM EXAMPLE

2 WIRE WIRING DIAGRAM EXAMPLE

SERIES TH Load Limitations

4 mA to 20 mA Output Only $Vmin = 10V + (.020 \times RL)$

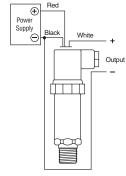
RL = Rs + Rw

RL = Loop Resistance (ohms) Rs = Sense Resistance (ohms)

Rw = Wire Resistance (ohms)

		, ,	
,	Series 615/616	4 mA to 20 mA 2-Wire	1
1	+ Supply	Red/1/A/1/1/Brown	
1	+ Output	Black/2/B/2/3/Blue	
	Series 615/616	Voltage Output	
	Series 615/616 + Supply	Voltage Output Red/1/A/1/1/Brown	-
	-	•	-

Example: Red/1/A/1/1 = Applicable color wire/din plug number/bendix pin/junction box pin/M12 x 1 pin number/M12 color wire



3 WIRE WIRING DIAGRAM EXAMPLE

10656Roselle St. San Diego, CA 92121 Ph: (800)648-7737 - Fx: (858)784-0720 www.reotemp.com