



**TEL-TRU
MANUFACTURING CO.**

World-Class Instruments

Thermometers • Pressure Gauges • Transmitters • Accessories

Tel-Tru P600 Series Pressure Transmitter User's Instructions

Installation:

Tel-Tru pressure transmitters may be mounted in any plane with negligible effect on performance. Although these transmitters are designed to withstand substantial shock and vibration, it is recommended they be mounted in an area of minimal vibration. Always use a wrench on the hex flats when installing. Never use a pipe wrench on the housing or in the area of the electrical connection.

Maintenance:

Tel-Tru pressure transmitters require no maintenance. Re-calibration is dependent upon the user's Quality Assurance Program.

Calibration and re-ranging:

Tel-Tru pressure transmitters may be re-ranged dependent upon the URL of the sensor in the specific transmitter. Check the website to find the URL from which the original calibrated range was based. The amount of zero and span adjustability is given in the table. Once that is known, the new range can be set using the following procedure:

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

- Remove plugs from zero and span access holes in the housing
- With no pressure applied, adjust the zero potentiometer for the correct zero output.
- Apply the correct full scale pressure to the unit
- Adjust the span potentiometer for the correct span output
- Re-check zero and span, adjusting as required to achieve the desired calibration
- Re-install the plugs

Calibration Record

Specifications

Model Number	
Serial Number	
Pressure Range	
Output	
Excitation	

Thermal Performance

Compensated Temp Range	30° to 130° F
Thermal Effect On Zero	<± 0.02% URL*/° F
Thermal Effect On Span	<± 0.018% of calibrated span/° F

* URL= Upper Range Limit, refers to the intrinsic range of the sensor. Refer to www.teltru.com/t-transmit-pres611.aspx for listing of ranges and associated URLs.

Final Calibration Data

Pressure Range	Output (mA) or (Vdc)
0%	
25%	
50%	
75%	
100%	
Static Accuracy (BFSL)	

All Tel-Tru Transmitters are calibrated on equipment traceable to NIST standards

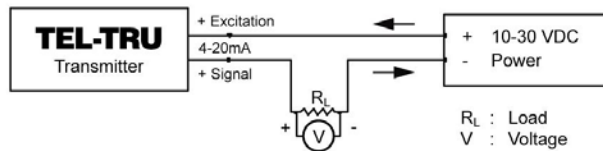
Test Technician: _____

Date: _____

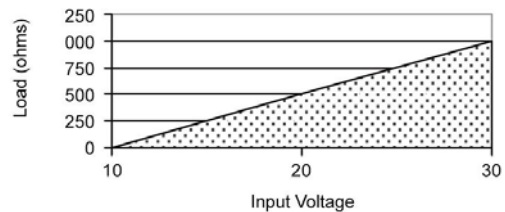
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Date: _____

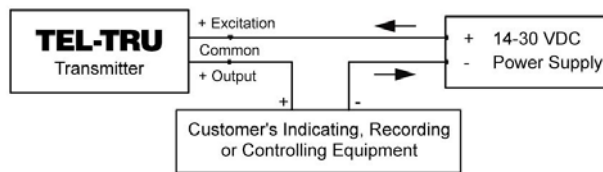
Wiring Diagram for 4-20mA 2 Wire Output



Load Resistance for 4-20mA 2 Wire Output



Wiring Diagram for 0-5V, 1-5V, 1-6V, 0-10V and 1-11V 3 Wire Output



2-Wire Connections for 4-20mA Output

	Integral Cable	DIN 43650-C	DIN 43650-A	M12 4-pin	M12 5-pin	Conduit w/cable	Bendix 4-pin	Bendix 6-pin
+ Excitation	Red	Pin 1	Pin 1	Pin 1	Pin 1	Red	Pin A	Pin A
+ Output	Black	Pin 2	Pin 2	Pin 3	Pin 3	Black	Pin B	Pin B

3-Wire Connections for 0-5V, 0-10V, 1-5V, 1-6V and 1-11V Outputs

	Integral Cable	DIN 43650-C	DIN 43650-A	M12 4-pin	M12 5-pin	Conduit w/cable	Bendix 4-pin	Bendix 6-pin
+ Excitation	Red	Pin 1	Pin 1	Pin 1	Pin 1	Red	Pin A	Pin A
Common	Black	Pin 2	Pin 2	Pin 3	Pin 3	Black	Pin B	Pin B
+ Output	White	Pin 3	Pin 3	Pin 4	Pin 4	White	Pin C	Pin C

Tel-Tru Manufacturing Company

408 Saint Paul Street, Rochester, New York 14605 • PO Box 30144, Rochester, New York 14603-3144

Phone: 585.232.1440 • 800.232.5335 • Fax: 585.232.3857

Email: info@teltru.com • Web: www.teltru.com