

Industrial OEM Pressure Transmitters

TPL Series

Features

- Stainless steel housing
- Rugged construction
- Choice of pressure ports
- Excellent long-term stability
- Wide temperature compensation range
- Optional calibration



Description

The TPL Series from TT Electronics is a family of high-performance digitally compensated pressure transducers. They are designed and built at our state-of-the-art facilities in Europe and can be specifically configured from a wide selection of pressure ports and electrical connections, to cover all typical installation requirements. Gauge pressure is detected using a four arm active strain gauge bridge incorporating highly stable resistors. The resistors are fused to a high purity ceramic pressure sensing element. Changes in the pressure of the media under measurement result in changes in the bridge voltage conditioned by onboard processing electronics. This allows the transmitters to provide a reliable 0.5V to 4.5V ratiometric output over its full operating temperature range.

Typical Applications

- Automotive Engine Testing
- Hydraulic/Pneumatic Systems
- Farming Equipment
- Industrial Automation
- Off-Highway Vehicles
- Water and Wastewater
- Instrumentation
- Emissions Testing
- Cooling Fluid Pressure
- Industrial Engines
- HVAC

Reference Specifications

Output Type (V)	0.5 to 4.5
Output Span	4.0 Vdc \pm 1% of span
Output Zero	0.5 Vdc \pm 1%
Non Linearity Hysteresis & Repeatability	\pm 0.25% of span (best fit straight line)
Compensated Temperature Range	0°C to 80°C
Operating Temperature Range	-40°C to 125°C
Thermal Zero Shift	\pm 0.04% of span /°C
Thermal Span Shift	\pm 0.015% reading /°C
Long Term Stability	\pm 0.1% /12 months
Power Supply	5 Vdc \pm 0.25 Vdc
Over Pressure	21 bar for 15 seconds @20°C
Burst Pressure	>35 bar

Ordering Information

T	P	L	-	N	N	N	N	-	G	-	1	-	C	-	V	-	N	-	A	-	C	-	C	-	X					
Pressure Range								Pressure Port								Seal Material				Electrical Connector			Connector Pinout			Accuracy Class		Options		
Code	BarG	Code	PSIG	A	G 1/8 male							A	Fluorosilicone (Parker FVMQ L8559 - 70)			A	Mini-DIN plug and socket		1	Pin 1: Output Pin 2: +ve supply Pin 3: -ve supply		C	See specification for detail		X	No options				
0004	0-4	050P	0-50	B	G 1/8 female							E	EPDM			B	Bayonet connector						N	Nut for Vernon Morris bulkhead fitting						
0005	0-5	075P	0-75	C	G 1/4 male							H	HNBR																	
0006	0-6	090P	0-90	D	G 1/4 male with 60° cone							N	NITRILE 70																	
0007	0-7	100P	0-100	E	G 1/4 male gauge fitting							P	PERLAST G80A																	
0008	0-8	120P	0-120	F	G 1/4 female							S	SILICONE																	
0009	0-9	135P	0-135	G	G 3/8 male							V	VITON																	
0010	0-10	150P	0-150	H	G 1/2 male with 60° cone							W	EPDM (Potable Water)																	
Pressure Reference								I	G 1/2 male gauge fitting							Electrical Output														
G	Gauge							J	1/4 NPT male							01	0.5V to 4.5V dc													
Pressure Port Material								K	1/4 NPT female																					
1	303 Stainless Steel							L	1/2 NPT male																					
								M	Vernon Morris QR Probe																					
								N	Vernon Morris QR Probe with M12 x 1.75 bulkhead fitting thread																					
								O	M10 x 1.0 male																					
								P	M12 x 1.5 male																					
								Q	M14 x 1.5 male																					
								R	M16 x 1.5 male																					
								S	M18 x 1.5 male																					
								T	M20 x 1.5 male																					

Outline Drawings

