Pressure

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

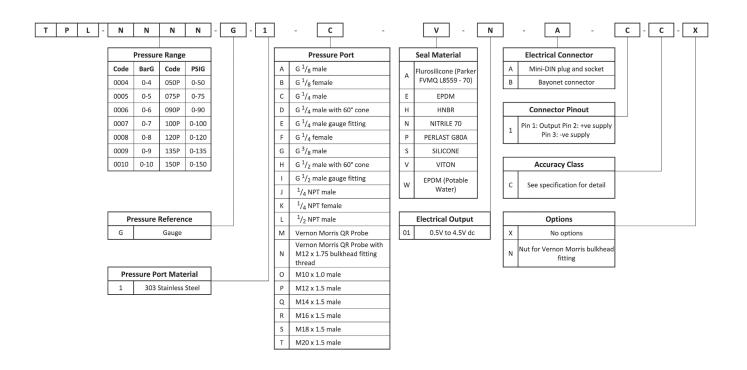
Output Type (V)	0.5 to 4.5
Output Span	4.0 Vdc ± 1% of span
Output Zero	0.5 Vdc ±1%
Non Linearity Hysteresis & Repeatability	±0.25% of span (best fit straight line)
Compensated Temperature Range	0°C to 80°C
Operating Temperature Range	-40°C to 125°C
Thermal Zero Shift	±0.04% of span /°C
Thermal Span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

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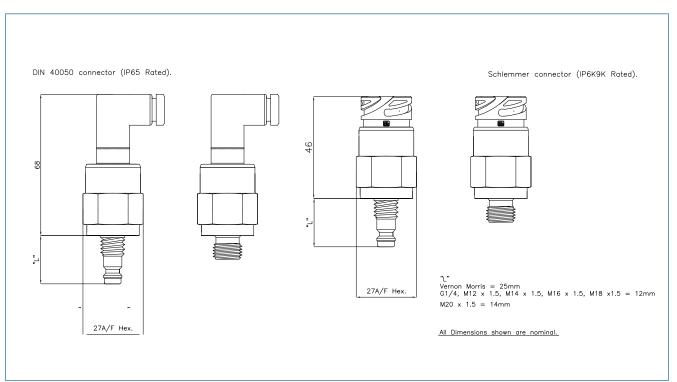
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Ordering Information



Outline Drawings



General Note: TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print. Specifications are for reference purposes only and should not be used as a final means of determining proper sizing and selection of pressure sensors. For technical assistance, please consult the factory.