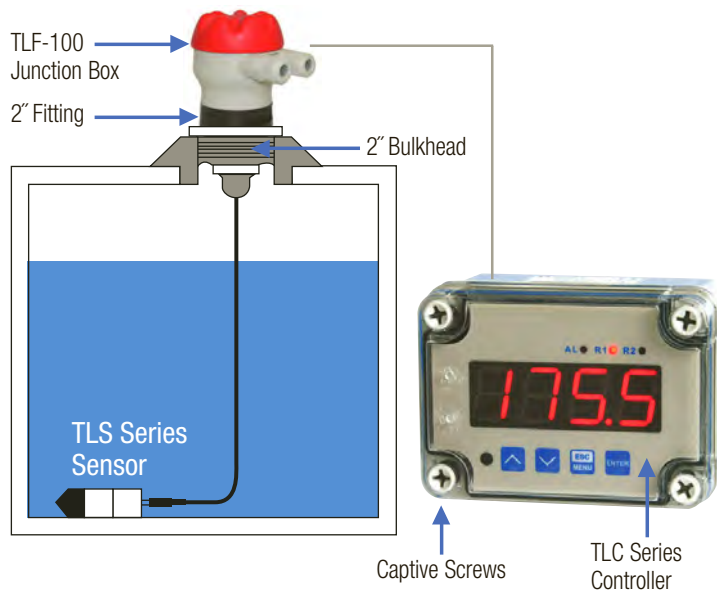


TLS SERIES Industrial Level Pressure Transmitter

KEY FEATURES & BENEFITS

- Designed for Continuous Level Measurement for Aggressive Liquid Medias
- Flush Sensor - Non Clogging Design
- PVC Transmitter for Aggressive Fluids
- PVC Body with Ceramic Sensor (Corrosion Resistant)
- Compact Design
- Excellent Long-Term Stability
- High Accuracy
- Heavy Duty PTFE Cable (3m, 5m, 10m or 15m Length) - Other Lengths Available
- Excellent for Foam, Vapor or Condensate
- Excellent for All Tanks/Sumps - Large (54') or Small (16')
- Ceramic Sensing Diaphragm
- No Moving Parts
- Automatic Temperature Compensation
- CSA Listed and CE Approval

TYPICAL INSTALLATION



TYPICAL APPLICATIONS

- Waste Water Treatment
- Leachate Collection
- Waste Sumps or Pits
- Chemical Dosing
- Pits
- Chemical Tanks

SPECIFICATIONS

Pressure Measurement	0 – 14 ft/H ₂ O up 54 ft/H ₂ O 5.8 psi – 23 psi
Power Source	DC Power Only
Output Signal	2 wire: 4-20 mA

TLS Series

INDUSTRIAL LEVEL PRESSURE TRANSMITTER



INPUT PRESSURE RANGE

Nominal Pressure Gauge	psi	5.8	8.7	14.5	23
Level	ft/H ₂ O	13.0	20.0	33.5	54
Overpressure	psi	2.1	29	29	58
Burst Pressure	psi	29	58	58	72

OUTPUT SIGNAL/SUPPLY

Standard	2-wire: 4-20 mA
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PERFORMANCE

Accuracy	±0.5% Full Scale or Better
Permissible Load	$R_{max} = [(V_s - V_{smin}) / 0.02A] \Omega$
Influence Effects	Supply: 0.05% Full Scale/10V Load: 0.05% Full Scale/K Ω
Long-term Stability	±0.1% Full Scale over one year
Response Time	<10 msec or better

¹accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)

THERMAL EFFECTS (OFFSET AND SPAN)

Thermal Error	<0.2% FSO/K in compensated range -13°F - 158°F (-25 - 70°C)
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PERMISSIBLE TEMPERATURES

Permissible Temperatures	Medium	32°F - 140°F (0°C - 60°C)
	Storage	14°F - 140°F (-10°C - 60°C)

ELECTRICAL PROTECTION

Short-circuit Protection	Permanent
Reverse Polarity Protection	No Damage to Sensor
Electromagnetic Compatibility	Emission Immunity according to EN 61326
Short-circuit Protection	Permanent

ELECTRICAL CONNECTION

Cable with sheath material (3 wire cable with integrated air tube for atmospheric pressure reference)	FEP PTFE 0°F - 200°F (-32°C - 93°C)
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MATERIALS (WETTED)

Housing	PVC
Seals	FKM or EPDM (FKM – Standard)
Diaphragm	Ceramic Al ₂ O ₃

PIN CONFIGURATION

Electrical Connection	Cable	Colors
Supply +		White
Supply –		Brown
Shield		Green / Yellow

MISCELLANEOUS

Current Consumption	Max. 25 mA
Weight	Approx. 0.4 lb / 0.2 kg (without cable)
Ingress Protection	IP 68
CE-Conformity	EMC Directive: 2004/108/EC

WIRING DIAGRAM

