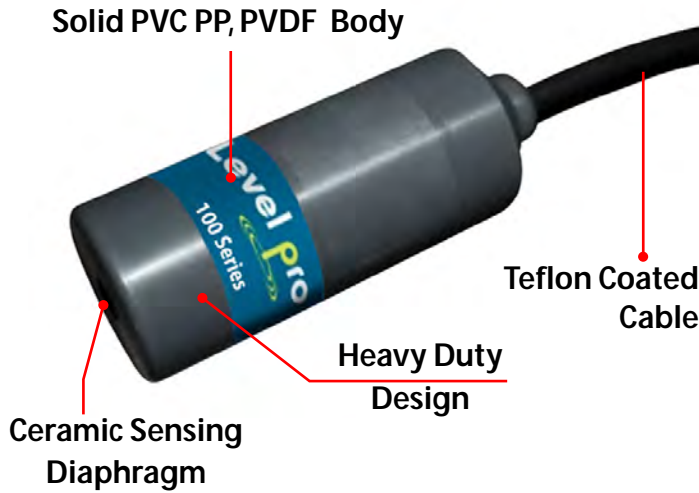


The Solution to Tough Level Applications

"Where Ultrasonics Sensors Simply DO NOT WORK!"

ALL PLASTIC DESIGN



Commercial Series Heavy Duty Industrial Level Transmitter

PVC, PP, PVDF Plastic Transmitter
for Aggressive Fluids

PVC, PP, PVDF Body
(Corrosion Resistant)

The **100 Series Pressure Transmitter** is designed for Continuous Level Measurement for **Aggressive Liquid Media**. - No Lost Signals

Applications

Sewage



- Foam - Vapor-Turbulence-Condensate
- Waste Water Treatment
- Leachate Collection
- Waste Sumps or Pits
- Chemical Dosing
- Inventory Management

Aggressive media



- Acids + Base
- Pits
- Chemical Tanks
- Plating Tanks
- PH Control Tanks
- Storage Tank Monitoring

- ▶ **Excellent for All Tanks/Sumps-Large (54") or Small (14")**
- ▶ **The Solution to Tough Applications where Ultrasonics Sensors Simply DO NOT WORK!**
- ▶ **No Lost Signals**

Pressure Measurement

- ▶ Tanks / Sumps 0-14ft / H₂O up to 54ft / H₂O

Output Signal

- ▶ 2 wire: 4-20 mA

Features

- ▶ Compact Design
- ▶ Low Cost
- ▶ Excellent Long Term Stability
- ▶ High Accuracy
- ▶ Flush Sensor - Non Clogging Design
- ▶ Heavy Duty PTFE Cable (5m, 10m, 15m) Length - Other Lengths Available
- ▶ Excellent for Foam, Vapor or Condensate
- ▶ Ceramic Sensing Diaphragm
- ▶ Heavy Duty Rugged Design
- ▶ No Moving Parts
- ▶ Automatic Temperature Compensation

Input Pressure Range

Level ft/H ₂ O		14.0	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: 4-20mA
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Performance

Accuracy	<± 0.5% Full Scale or Better
Permissible load	$R_{max} = [(V_s - V_{smin}) / 0.02 \text{ A}] \Omega$
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
¹ accuracy 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 -25 - 70°C -13 - 158°F
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Permissible Temperatures

Permissible Temperatures	Medium Storage	PVC 0°C -60°C 32°F -140°F	PP -20°C -195°F	PVDF -30-200 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	PTFE (Teflon®) (0 -200° F)
3 Wire Cable with integrated air tube for atmospheric pressure reference	

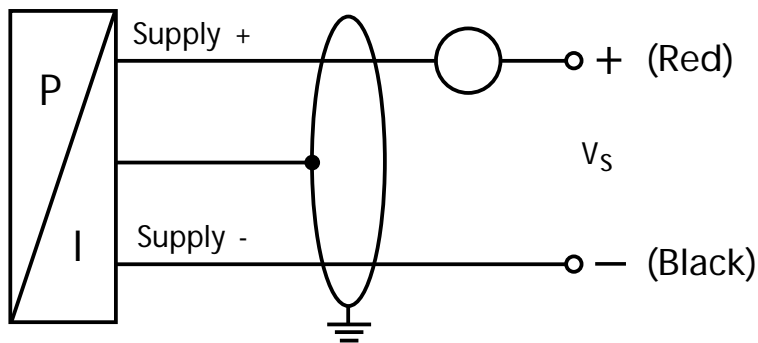
Materials (wetted)

Housing	PVC, PP, PVDF
Seals	FKM
Diaphragm	Ceramic Al ₂ O ₃

Miscellaneous

Current Consumption	Max. 25 mA
Weight	approx. 200g (without cable)
Ingress Protection	IP 68
CE-Conformity	EMC Directive: 2004/108/EC

Wiring Diagram



2-wire-system (current) 4-20mA

Electrical Connection	Cable Colours
	Supply + wh (Red)
	Supply - bn (Black)
	Shield (yellow)

DC Power Only



