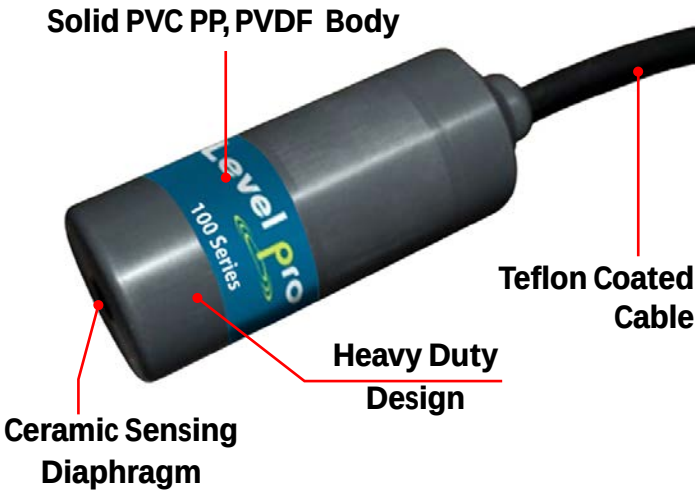
The Solution to Tough Level Applications
"Where Ultrasonics Sensors Simply DO NOT WORK!"

ALL PLASTIC DESIGN



Pressure Measurement

- Tanks / Sumps 0-14ft / H_2O up to 54ft / H_2O

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

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**

Input Pressure Range

Level ft/H_2O		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

Performance

Accuracy	<± 0.5% Full Scale or Better
Permissible load	$R_{max} = [(Vs-Vs_{min})/0.02\ A]\ \Omega$
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

Permissible Temperatures

Permissible Temperatures	Medium **PVC** 0°C -60°C 32°F -140°F **PP** -20°C -195°F **PVDF** -30-200 F Storage -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

DC Power Only

Electrical Connection

Cable with sheath material	PTFE (Teflon®) (0 -200°F)
3 Wire Cable with integrated air tube for atmospheric pressure reference	

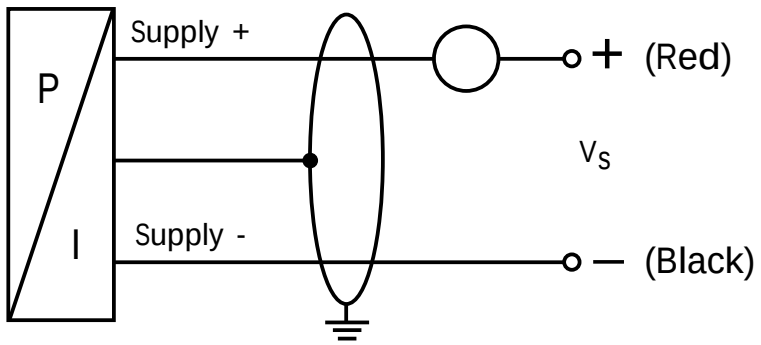
Materials (wetted)

Housing	PVC, PP, PVDF
Seals	FKM
Diaphragm	Ceramic $Al_2 0_3$

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

Ordering Code 100 Series

Pressure																										
	ft/H20	1	0	0																						
Input	**ft/H20**																									
	14.0				1	0	0	1																		
	20.0				1	6	0	1																		
	33.0				2	5	0	1																		
	54.0				4	0	0	1																		
Housing																										
	PVC								A																	
	PP									P																
	PVDF										F															
Diaphragm																										
	Ceramics $Al_2 0_3$									2																
Output																										
	4-20mA /2-wire										1															
Seals																										
	FKM (Standard)											1														
												3														
Accuracy																										
	≥0.5% over Full Scale												5													
Electrical Connection																										
	PTFE Teflon Coated cable[1]													1												
Cable Length																										
	M-Meters, F-Feet 15M Cable STD																		9	9	9					
Special Version																										
	3M 20FT 15M 50FT																						3			
	5M 30FT																							5		
	10M 40FT																								1	
	x (consult)																								x	0

* cable comes with integrated air tube for atmospheric pressure reference