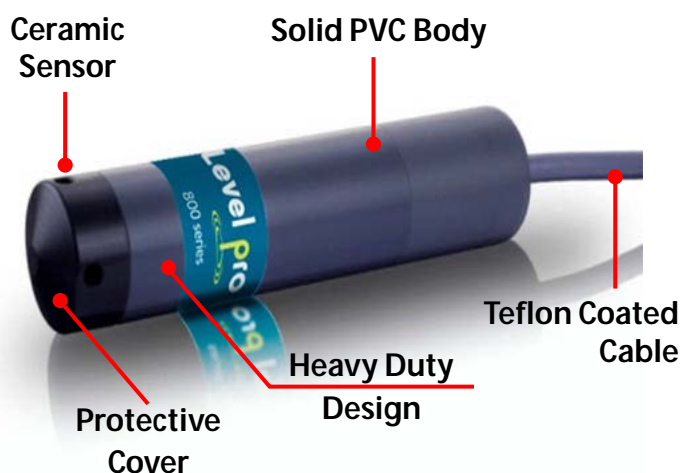


"Taking Your Pressure To a Higher Level"

ALL PLASTIC DESIGN



Pressure Measurement

- ▶ from 0-14ft / H₂O up to 54ft / H₂O
5.8 PSI - 23 PSI

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 PVC Cable (3m, 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

800 Series

Heavy Duty Industrial Level Transmitter

PVC Plastic Transmitter for
Aggressive Fluids

PVC Body - Ceramic Sensor
(Corrosion Resistant)

The **PVC 800 Series Pressure Transmitter** is designed for Continuous Level Measurement for **Aggressive Liquid Media**.

Applications

Sewage



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

Aggressive media



- Leachate Collection
- Pits
- Chemical Tanks

- ▶ Excellent for All Tanks/Sumps-Large (54") or Small (16")
- ▶ The Solution to Tough Applications where
Ultrasonics Sensors Simply DO NOT WORK!
- ▶ No Lost Signals



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: 4-20mA
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Performance

Accuracy	<± 0.5% Full Scale or Better
Permissible load	$R_{max} = [(V_s - V_{smin}) / 0.02 A] \Omega$
Influence effects	Supply : 0.05% Full Scale/10V Load : 0.05% Full Scale/K Ω
Long term stability	<± 0.1% Full Scal 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
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Permissible Temperatures

Permissible Temperatures	Medium	0 -60°C	32°F -140°F
	Storage	-10 -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	FEP (Teflon) (0 -200°F)
3 Wire Cable with integrated air tube for atmospheric pressure reference	

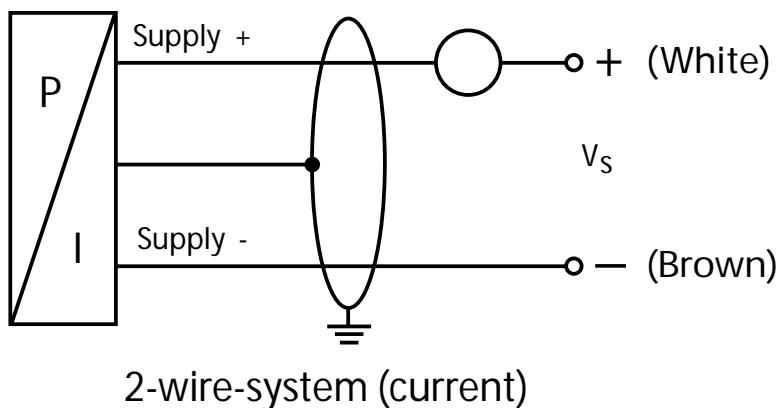
Materials (wetted)

Housing	PVC
Seals	FKM/EPDM (FEM - Standard)
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



Pin Configuration

Electrical Connection	Cable Colours	
	Supply +	wh (white)
	Supply -	bn (brown)
	Shield	(green/yellow)

Ordering Code 800 Series

		[][]		[][][][]		[]	[]	[]	[]	[]	[]	[][][]		[][][]	
Pressure															
	PSI	8	9	0											
	ft/H ₂ O	8	9	1											
Input	PSI	ft/H₂O													
	5.8	14.0	1	0	0	1									
	8.7	20.0	1	6	0	1									
	14.5	33.0	2	5	0	1									
	23.2	54.0	4	0	0	1									
Housing															
	PVC	A													
Diaphragm															
	Ceramics Al ₂ O ₃	2													
Output															
	4-20mA /2-wire	1													
Seals															
	FKM (Standard)	1													
	EPDM	3													
Accuracy															
	0.5%	5													
Electrical Connection															
	FEP Teflon cable ¹	1													
Cable Length															
	M-Meters, F-Feet	9	9	9											
Special Version															
	3M	20FT										3			
	5M	30FT											5		
	10M	40FT												1	0
	x (consult)														x

* cable comes with integrated air tube for atmospheric pressure reference

