

ALL PLASTIC DESIGN



"Taking Your Pressure To a Higher Level"

800 series

Heavy Duty Industrial Level Transmitter

PVC Plastic Transmitter for Aggressive Fluids

PVC Body - Ceramic Sensor

Corrosion Resistant

Pressure Measurement

from 13.0 ft/H₂O up to 54 ft/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
- ▶ Heavy Duty PVC Cable (3m, 5m, 10m, 15m) Length**
- ▶ Excellent for Foam or Vapour
- ▶ Ceramic Sensing Diaphragm
- ▶ Heavy Duty Rugged Design
- ▶ No Moving Parts
- ▶ Automatic Temperature Compensation

The **PVC 800 Series Pressure Transmitter** is designed for Continuous Level Measurement for aggressive liquids medias.

Applications



Sewage

- Waste Water Treatment
- Leachate Collection
- Waste Sumps or Pits



Aggressive media

- Acids
- Caustics
- Sodium Hypochlorite

Excellent for Both Small Tanks, Totes or Large Tanks up to 54 feet in Height



* Check Chemical Resistance **Other Lengths Available

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
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

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 -25 - 70°C

Permissible Temperatures			
Permissible Temperatures	Medium	0 - 50°C	32°F -122°F
	Storage	-10 -50°C	

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

Electrical Connection	
Cable with sheath material	PVC (0 -50°C)

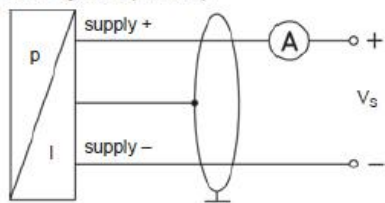
³cable with integrated air tube for atmospheric pressure reference

Materials (wetted)	
Housing	PVC
Seals	FKM/EPDM
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)



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

Orderingcode800 Series												
Pressure												
	PSI	8	9	0								
	ft/H ₂ O	8	9	1								
Input												
	PSI	ft/H2O										
	5.8	13.4		1	0	0	1					
	8.7	20.0		1	6	0	1					
	14.5	33.5		2	5	0	1					
	23.2	53.6		4	0	0	1					
Housing												
		PVC					A					
Diaphragm												
		Ceramics Al ₂ O ₃					2					
Output												
		4-20mA /2-wire					1					
Seals												
		FKM					1					
		EPDM					3					
Accuracy												
		0.5%					5					
Electrical Connection												
		PVC cable ¹					1					
Cable Length												
		in m					9	9	9			
Special Version												
		3								3		
		5								5		
		10								1	0	
		x (consult)										x

¹cable comes with integrated air tube for atmospheric pressure reference

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