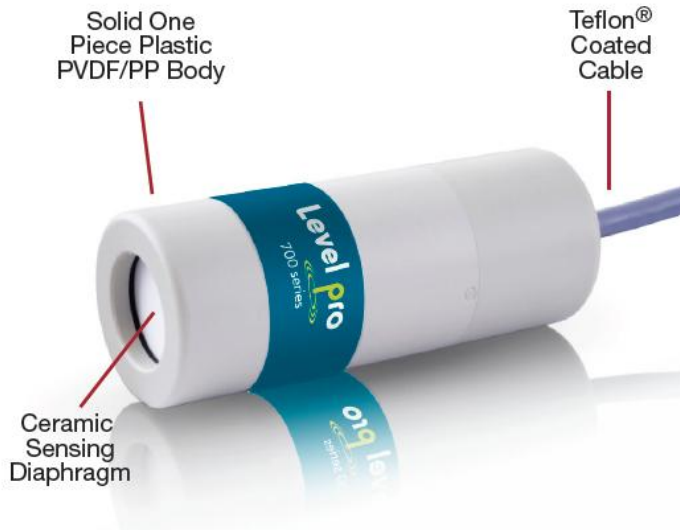


"Always on the Level"



700 series Industrial Level Transmitter

PVDF/PP Heavy Duty Plastic Level Pressure Transmitter For Corrosive Media

Excellent For Tank Level Measurement

Pressure Measurement

from 5.4 ft/H₂O up to 54 ft/H₂O
2.33 PSI to 23 PSI

Output Signal

2 wire: 4-20 mA

Features

- ▶ Heavy Duty Rugged Design
- ▶ No Moving Parts
- ▶ Designed for Tank Level Measurement of Viscous and Aggressive Liquids*
- ▶ High Accuracy
- ▶ Ceramic Sensing Diaphragm
- ▶ Housing Material PVDF or PP
- ▶ Flush Sensor - Non Clogging
- ▶ Great for Foam-Vapour Applications
- ▶ High Accuracy
- ▶ Compact Design
- ▶ FEP Teflon Coated cable (3m, 5m, 10m, 15m)**

* Check Chemical Resistance

The 700 Series Plastic Pressure Transmitter is designed for continuous level measurement in the toughest industrial environments.

Applications



Waste water

- Leachate
- Sumps or Pits
- Strong Cable Design with Maintenance Free Breather Tube
- Automatic Temperature Compensation for Accurate Measurement



Aggressive liquids

- Acids
- Caustics
- Sodium Hypochlorite
- Peroxides



PP/PVDF LEVEL TRANSMITTER

Pressure Range						
Pressure PSI	2.32	3.6	5.8	8.7	14.5	23.2
Liquid Level ft/H ₂ O	5.4	8.36	13.4	20.0	33.5	53.6

Output Signal/Supply	
Standard	2-wire: 4-20mA Vs 8-32VDC

Performance	
Accuracy	Standard $\leq \pm 0.35\%$ full scale
Long Term Stability	$\leq \pm 0.1\%$ FS/year
Turn-on Time	<700 msec
Mean Response Time	<200 msec
Max. Response Time	<380 msec measuring rate: 5/sec

Thermal Effects (Offset and Span)	
Thermal Error	$\leq \pm 0.1\%$ FS/ 10 K within compensated range 0 - 70 °C 32 °F - 160 °F

Permissible Temperatures	
Permissible Temperatures	Normal -25 - 100°C
Mean Response Time	Electronic/Environment -25 - 100°C
Max. Response Time	Normal -25... 100°C

Electrical Protection	
Short-circuit Protection	Yes - Permanent
Reverse Polarity Protection	Yes - No damage
Electromagnetic Compatibility	Emission and Immunity

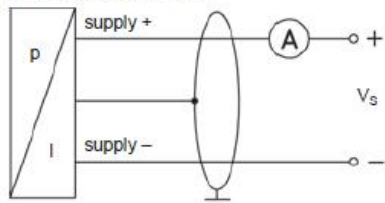
Electrical Connection	
Cable with sheath material	-25 °F -180°F

Materials (wetted)	
Housing	PVDF/PP
Seals	FKM/EPDM/FFKM (KALREZ®)
Diaphragm	Ceramic Al ₂ O ₃

Miscellaneous	
Current Consumption	Max. 21 mA
Weight	320g (w/o cable)
Ingress Protection	IP 68

Wiring Diagram

2-wire-system (current)



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

Level pro 700 Series

OrderingCode700											
Pressure											
	PSI		7	9	5						
	ft/H ₂ O		7	9	3						
Input											
	PSI	ft/H₂O									
	2.32	5.4				1	6	0	0		
	3.6	8.3				2	5	0	0		
	5.8	13.4				4	0	0	0		
	8.7	20.0				6	0	0	0		
	14.5	33.5				1	0	0	1		
	23.2	53.6				1	6	0	1		
Housing											
		PVDF(B)								BE	
		PP(E)									
Diaphragm											
										C	
		Ceramics Al ₂ O ₃									
Output											
										1	
		2-wire/4-20mA									
Seals											
		FKM								1	
		EPDM								3	
		FFKM (Kalrez) [®]								7	
Accuracy											
										3	
		0.25% Over Full Scale									
Electrical Connection											
											3
		FEP Teflon [®] Coated Cable ¹									
Cable Length											
		M		3							3
				5							5
				10							10
				15							15
				X**							X

¹cable comes with integrated air tube for atmospheric pressure reference

** Other lengths available

"Always on the Level"