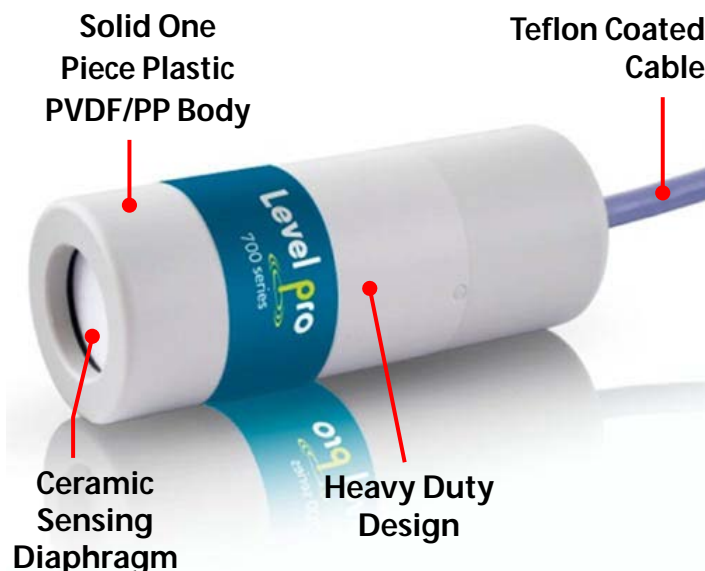


"Always On The Level"



700 Series

Industrial Level Transmitter

PVDF/PP Heavy Duty Plastic
Level Transmitter
For Corrosive Media

**Excellent For Tank
Level Measurement**

Pressure Measurement

- ▶ from 0-5.4 ft / H₂O up to 54 ft/H₂O
2.33 PSI - 23 PSI

Output Signal

- ▶ 2 wire: 4-20 mA

Features

- ▶ Heavy Duty Rugged Design
- ▶ No Moving Parts
- ▶ Designed for Tank Level Measurement of Viscous Liquids
- ▶ High Accuracy
- ▶ Ceramic Sensing Diaphragm
- ▶ Housing Material PVDF or PP
- ▶ Flush Sensor - Non Clogging
- ▶ Great for Foam-Vapor-Turbulence
- ▶ All Plastic Design
- ▶ Small Footprint
- ▶ FEP Teflon Coated cable (3m, 5m, 10m, 15m)

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

Applications

Sewage



- Leachate
- Sumps or Pits
- Chemical Dosing Holding Tanks

Aggressive media



- Acids
- Caustics
- Sodium Hypochlorite
- Peroxides

- ▶ **Foam, Vapor, Turbulence, Condensate**
- ▶ **No More Level Problems**
- ▶ **No Lost Signals**
- ▶ **No More Issues with Ultrasonic Sensors**



Input Pressure Range

Nominal Pressure Gauge PSI	2.32	3.6	5.8	8.7	14.5	23.2
Level ft/H ₂ O	5.4	8.36	13.4	20.0	33.5	53.6
Overpressure PSI	30	30	60	60	90	90

Output Signal/Supply

Standard	2-wire: 4-20mA Vs 8-32VDC
----------	---------------------------

Performance

Accuracy	Standard <+ 0.35% full scale <+ 0.25% F.S.
Long Term Stability	<± 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	<± 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 -200°F
3 cable with integrated air tube for atmospheric pressure reference	

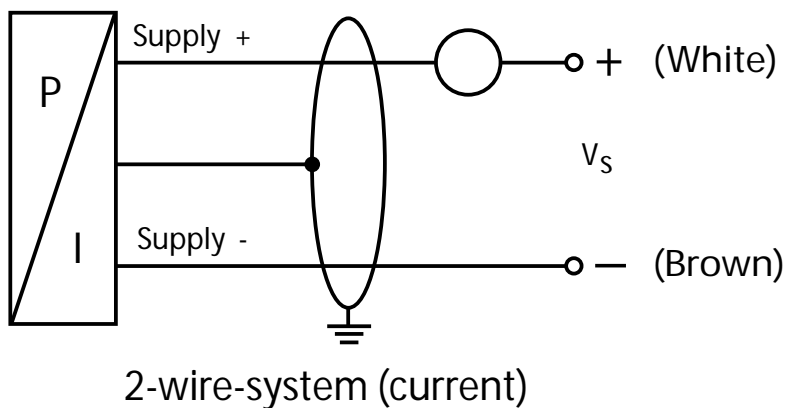
Materials (wetted)

Housing	PVDF/PP
Seals	FKM/EPDM/FFKM (KALREZ®) (FEM - Standard)
Diaphragm	Ceramic Al ₂ O ₃

Miscellaneous

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

Wiring Diagram



Pin Configuration

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

Ordering Code 700 Series

Ordering Code 700 Series											
<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>											
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	14	4	0	0	0					
	8.7	20	6	0	0	0					
	14.5	33	1	0	0	1					
	23.2	54	1	6	0	1					
Housing											
		PVDF(B)	PP(E)		BE						
Diaphragm											
		Ceramics Al ₂ O ₃			C						
Output											
		2-wire/4-20mA			1						
Seals											
		FKM (Standard)			1						
		EPDM			3						
		FFKM (Kalrez) [®]			7						
Accuracy											
<+0.35% (Standard)		0.25% Over Full Scale			3						
Electrical Connection											
		FEP Teflon [®] Coated Cable ¹			3						
Cable Length											
	M	3	FEET (F)						3		
		5								5	
		10									10
		15									15
		X									x

