100 SERIES

Continuous Submersible Level Transmitter

- Continuous Level Sensor
- Works on Foam / Vapor / Turbulence
- Excellent Chemical Resistance
- All Plastic Design
- PTFE Teflon® Shielded Cable

PVC | PP | PVDF | 316SS

RoHS Compliant CE

SERIES : 100

BODY : PVC / PP / PVDF / 316 SST

PVC Version

The 100 Series Transmitter is designed for Continuous Level Measurement of Aggressive Liquid Media

Pressure Measurement

- Tanks / Sumps up to 100 ft Range

Output Signal

- 2 wire / 4-20mA (Std) / Hart / RS485

Features

- Suitable for Corrosive Chemicals
- Built in Weight / Eliminates Floating
- 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 / Condensate
- Ceramic Sensing Diaphragm
- Heavy Duty Rugged Design
- No Moving Parts
- Automatic Temperature Compensation

Applications

Sewage

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

Aggressive media

- Acids + Bases
- Bulk Chemicals
- Chemical Day Tanks
- Plating Tanks
- PH Control Tanks
- Storage Tank Monitoring

- **Excellent for Tanks / Sumps / Large (100') / Small (12")**
- **The Solution to Tough Applications where Ultrasonic Sensors Simply DO NOT WORK!**
- **No Lost Signals**

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Input Pressure Range

Level ft/H_2O		14.0	20.0	33.5	54	* Consult Factory for Levels > 54 Ft
Overpressure	psi	210	290	290	380	
Burst Pressure >	psi	290	580	580	720	

Output Signal/Supply

Standard	2-wire / 4-20mA (Loop Powered) Hart / RS 485 / Voltage

Performance

Accuracy	<± 0.5% Full Scale or Better
Permissible load	R_{max} = [(Vs-V_{smin})/0.02 A] Ω
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** 32°F - 140°F / **PP** -4° - 178°F / **PVDF** -30 - 178 °F / **316 SS** -30 - 178°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

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 / 316 SS
Seals	FFKM - Kalrez®
Diaphragm	Ceramic $Al_2 0_3$

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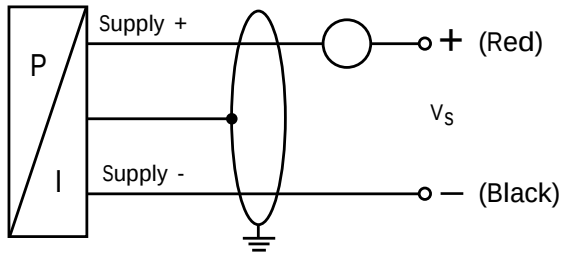
Miscellaneous

Current Consumption	Max. 25mA
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)

Ordering Code 100 Series

															1	1	3	3						
Pressure																								
ft/$H_2$0		1	9	1																				
Input	**ft/H20**																							
	14.0				1	4	0	1																
	20.0				1	2	0	1																
	34.0				1	0	0	1																
	54.0				4	0	0	1																
Housing																								
	PVC								A															
	PP									B														
	PVDF										E													
	316 SS										SS	1	1	3	3									
Cable Length																								
	M-Meters,																							

Note: Consult Factory for Different Level Ranges

Note: 0 - 34' Range comes with 15M Cable

* cable comes with integrated air tube for atmospheric pressure reference

DC Power Only

RoHS Compliant CE