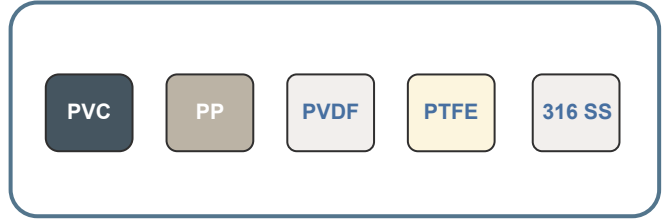


# 100 SERIES

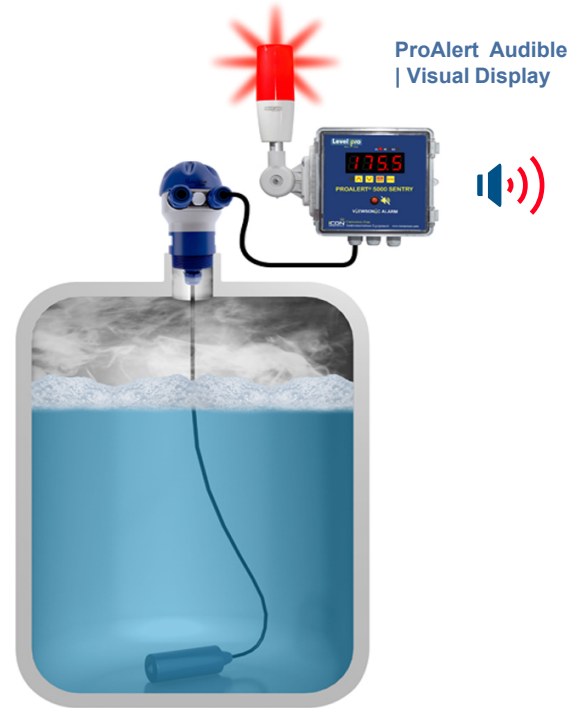
## Continuous Submersible Level Transmitter



- Higher Accuracy | Superior Chemical Resistance
- Works on Foam | Vapor | Turbulence | Condensate
- Integrally Molded Internal Weight | No Floating



The Solution to Tough Applications Where Ultrasonic Sensors Simply **DO NOT WORK!**



### 100 Series Outputs

- 4-20mA
- HART | RS-485
- 0.5-4.5VDC
- 0-5VDC
- Ratiometric | Non-Ratiometric

### 200C Features

- Automatic Temperature Compensation
- Flush Sensor - Non Clogging Design
- Heavy Duty PTFE Teflon® Cable
- High Accuracy | 0.5% Full Scale
- Capable of Measuring Liquid Levels 150'
- No Lost Signals
- No Dead-Band

### Displays

The 100 Series can be connected to one of our many displays.



### LP Submersible Junction Box



### Features

- VaporBloc® Technology
- Corrosion Resistant
- NEMA 4X

# 100 SERIES

## Continuous Submersible Level Transmitter



### Input Pressure Range

Level ft/H <sub>2</sub> O	14	20	34	54	*Consult Factory for Levels > 54 ft
Overpressure   Psi	210	290	290	380	

### Output Signal | Supply

Standard	4-20mA   4-20mA + Hart 2 Wire   0.5-4.5 VDC Ratiometric   0-5 VDC   RS-485 3 Wire
Power Supply	4-20mA   24 VDC    0.5-4.5VDC Ratiometric    0.5-4.5VDC   5VDC    RS-485 HART   24VDC

### Performance

Accuracy	<±0.5% of FS
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 $\Omega$
Long Term Stability	<± 0.1% Full Scale over One Year
Response Time	<10 msec

### Thermal Effects | Offset and Span

Thermal Drift	<± 0.02% FSO/K in Compensated Range   -20 -178°F
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### Permissible Temperatures

Storage Temperatures Media Temperatures	PVC   32°F - 140°F   PP   -20°F - 178°F   PVDF   -40°F - 212°F   PTFE   -40°F - 212°F   316 SS   -40°F - 212°F
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### 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

Jacketed Cable	PTFE   Teflon <sup>®</sup> -40 - 200°F
3-Wire Cable with Integrated Air Tube for Reference to Atmospheric Pressure	

### Materials | Wetted

Housing	PVC   PP   PVDF   PTFE   316 SS
Seal	FFKM - Kalrez <sup>®</sup>
Diaphragm	Pure Ceramic 96% Al <sub>2</sub> O <sub>3</sub>   316 SS

# 100 SERIES

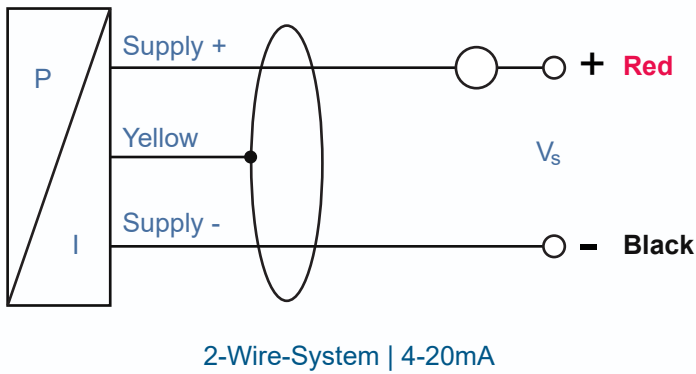
## Continuous Submersible Level Transmitter



### Specifications

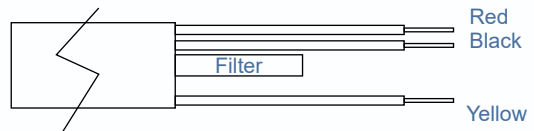
Current Consumption	Max. 25mA
Weight   Grams	PVC   575g   PP   475g   PVDF   825g   PTFE 875g   316 SS   875g
Ingress Protection	IP 68
CE-Conformity	EMC Directive: 2004   108   EC

### Wiring



### Electrical Connection

24VDC	Cable Colours
Supply +	Red
Supply -	Black



### Ordering Code

Pressure		ft/H <sub>2</sub> O		Input		ft/H <sub>2</sub> O		Housing		Cable Length	
		1	9	1	14.0	1	4	0	1	A	
					20.0	1	2	0	1	B	
					34.0	1	0	0	1	E	
					54.0	4	0	0	1	T	
										SS	

Note: Consult Factory for Different Level Ranges 5 | 10 | 15 | 20 | 25

