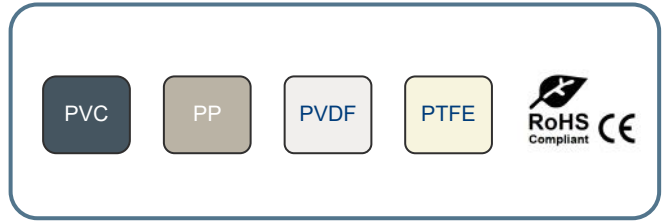


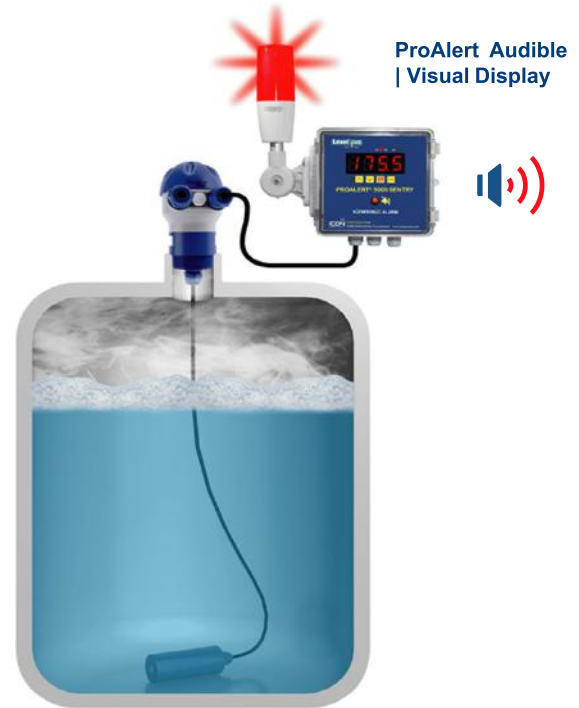
# 200C SERIES CAPACITIVE CERAMIC Continuous Submersible Level Transmitter



- ✓ 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!**



## Capacitive Ceramic Sensing Technology

Capacitive Ceramic is Designed for Continuous Level Measurement of Aggressive Liquid Media

- ✓ Superior Chemical Resistance
- ✓ Larger Sensing Area
- ✓ Suitable for Viscous Media

## 200C Features

- ✓ Lower Temperature Range | -40°F
- ✓ Flush Sensor - Non Clogging Design
- ✓ Heavy Duty PTFE Teflon® Cable
- ✓ High Accuracy | 0.25% Full Scale
- ✓ Capable of Measuring Liquid Levels 150'
- ✓ No Lost Signals
- ✓ No Dead-Band

## Displays

The 200C Series can be connected to one of our many displays.



## LP Submersible Junction Box



## Features

- ✓ VaporBloc®
- ✓ Technology Corrosion
- ✓ Resistant NEMA 4X

# 200C SERIES CAPACITIVE CERAMIC Continuous Submersible Level Transmitter



## Input Pressure Range

Level ft/H <sub>2</sub> O	ft	14	20	34	54
Overpressure		14X	14X	10X	10X

## 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	<±.25% Std   .125% Opt
Permissible Load	$R_{max} = [(Vs - Vs_{min}) / 0.02 A] \Omega$
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	<150 msec or better

## 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
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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 Teflon <sup>®</sup>
Seal	FFKM - Kalrez <sup>®</sup>
Diaphragm	Pure Ceramic 99.9% Al <sub>2</sub> O <sub>3</sub>

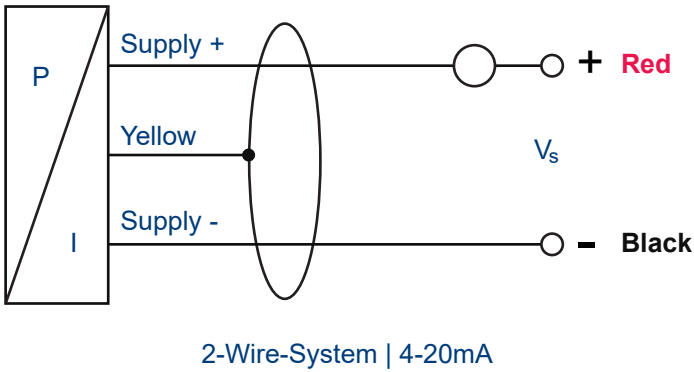
# 200C SERIES CAPACITIVE CERAMIC Continuous Submersible Level Transmitter



## Specifications

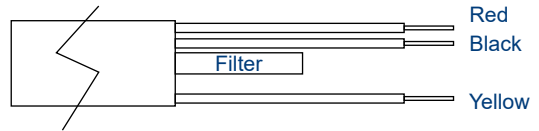
Current Consumption	Max. 25mA
Weight Grams	PVC 575g   PP 475g   PVDF 825g   PTFE Teflon® 875g
Ingress Protection	IP 68
CE-Conformity	EMC Directive: 2004   108   EC

## Wiring



### Electrical Connection

24VDC	Cable Colours
Supply +	Red
Supply -	Black



## Ordering Code

Pressure		ft/H2O		200C		1		1		33			
Input	ft/H2O	14.0	20.0	34.0	54.0	1	4	0	1				
						1	2	0	1				
						1	0	0	1				
						4	0	0	1				
Housing		PVC	PP	PVDF	PTFE	A	B	E	T				
Cable Length		Note: Consult Factory for Different Level Ranges 5   10   15   20   25											

