

200C SERIES CAPACITIVE CERAMIC Continuous Submersible Level Transmitter



- New Capacitive Ceramic 'Dry Cell' Technology
- 99.9% Pure Ceramic Al_2O_3
- Higher Accuracy | Superior Chemical Resistance
- Works on Foam | Vapor | Turbulence | Condensate
- Integrally Molded Internal Weight | No Floating

PVC	PP	PVDF	316SS	PVC	PP
-----	----	------	-------	-----	----

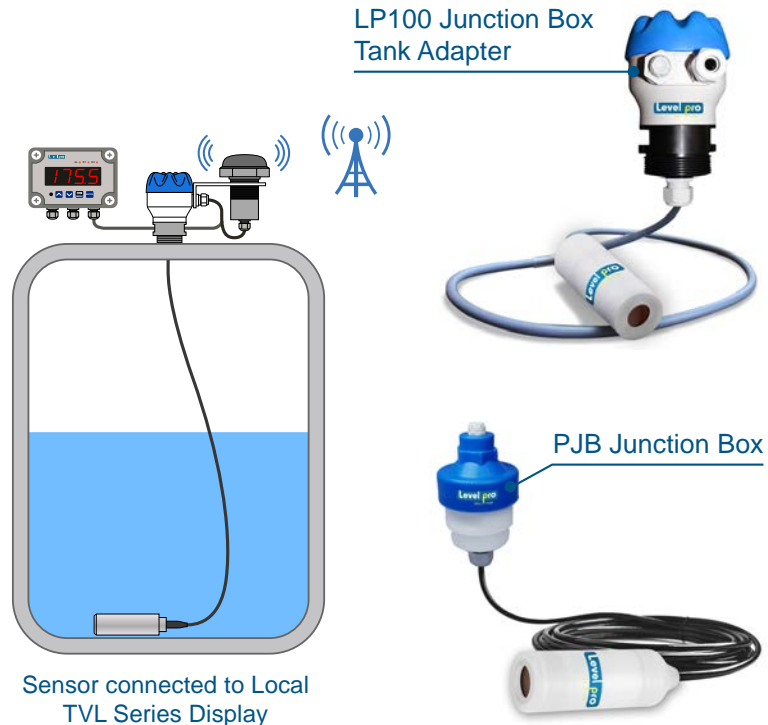
SERIES : 200C
BODY : PVC | PP | PVDF | PTFE | 316L SS



Integrally Molded Weight | No Floating

Capacitive Ceramic Technology | Higher Accuracy | Lower Temperature

The 200C Series Capacitive Ceramic Submersible Pressure Transmitter is Designed for Continuous Level Measurement of Aggressive Liquid Media



Sensor connected to Local TVL Series Display

Pressure Measurement

- ▶ Tanks | Sumps

Output Signal

- ▶ 4-20mA | Hart RS485 | 0.5 - 4.5VDC | 0-5VDC

Features

- ▶ Capacitive Ceramic Sensing Diaphragm
- ▶ FFKM Kalrez® O-Ring Seals
- ▶ Integral Weight Eliminates Floating
- ▶ Excellent Long Term Stability
- ▶ Lower Temperatures | -40°F
- ▶ Flush Sensor - Non Clogging Design
- ▶ Heavy Duty PTFE Teflon® Cable
- ▶ Excellent for Foam | Vapor | Condensate
- ▶ 2X Higher Accuracy than Piezo Ceramic
- ▶ 99.9% Al_2O_3 | Superior Chemical Resistance
- ▶ Zero Hysteresis | Rapid Response

Applications

Sewage



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

Aggressive media



- Acids + Bases
- Pits
- Chemical Tanks
- Plating Tanks
- PH Control Tanks
- Storage Tank Monitoring

- ▶ **The Solution to Tough Applications where Ultrasonic Sensors Simply DO NOT WORK!**
- ▶ **No Lost Signals**

200C SERIES CAPACITIVE CERAMIC

Continuous Submersible Level Transmitter



Input Pressure Range

Level ft/H ₂ O	Ft	14	20	34	54
Overpressure	psi	14X	14X	10X	10X

Output Signal | Supply

Standard	4-20mA 4-20mA + Hart 2 Wire 0.5-4.5 VDC Ratiometric 0-5 VDC RS485 3 Wire
Power Supply	12-36 VDC 16.5-55 VDC 5 VDC 6-15 VDC 9-30 VDC/5 VDC

Performance

Accuracy	<±.25% Std .125% Opt
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 Ω
Long-Term Stability	<± 0.1% Full Scale over One Year
Response Time	<150 msec or better

Thermal Effects | Offset and Span

Temperature Drift	<± 0.02% FSO/K in Compensated Range -20 -178°F
-------------------	---

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 316L SS -40°F - 212°F
--	---

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®) -40-200°F
3-Wire Cable with Integrated Air Tube for Reference to Atmospheric Pressure	

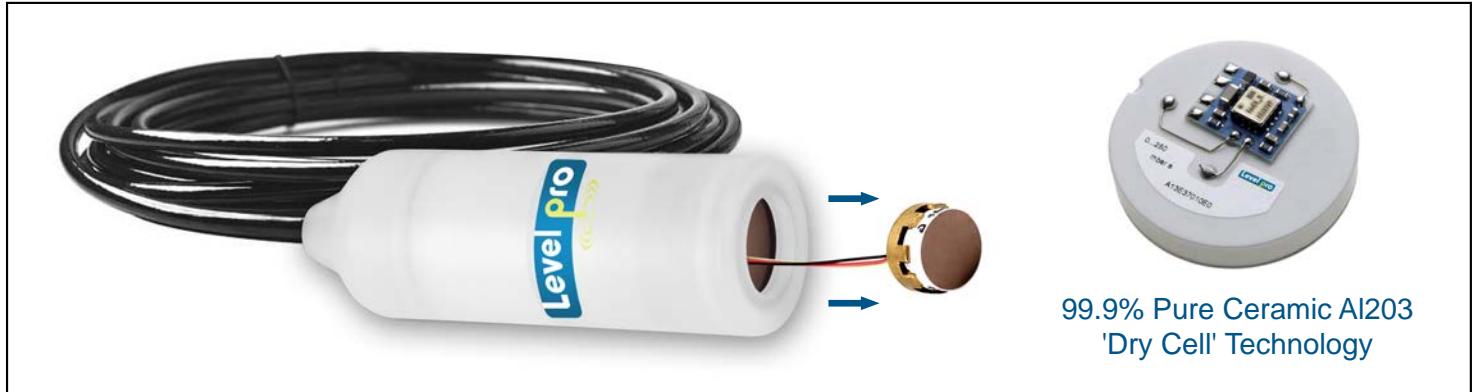
Materials | Wetted

Housing	PVC PP PVDF PTFE Teflon 316L SS
Seals	FFKM - Kalrez®
Diaphragm	Pure Ceramic 99.9% Al ₂ O ₃

200C SERIES CAPACITIVE CERAMIC Continuous Submersible Level Transmitter



Capacitive Ceramic Sensing Diaphragm



Dimensions | mm

