

- 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
-----	----	------	-------	-----	----

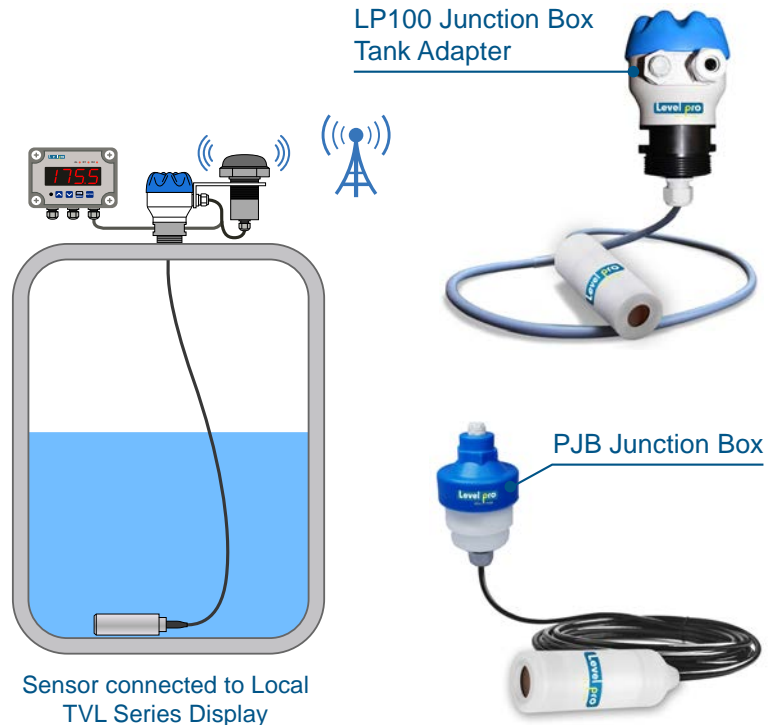
SERIES : 200C
BODY : PVC | PP | PVDF | PTFE | 316L SS



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



LP100 Junction Box Tank Adapter

Sensor connected to Local TVL Series Display

PJB Junction Box

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

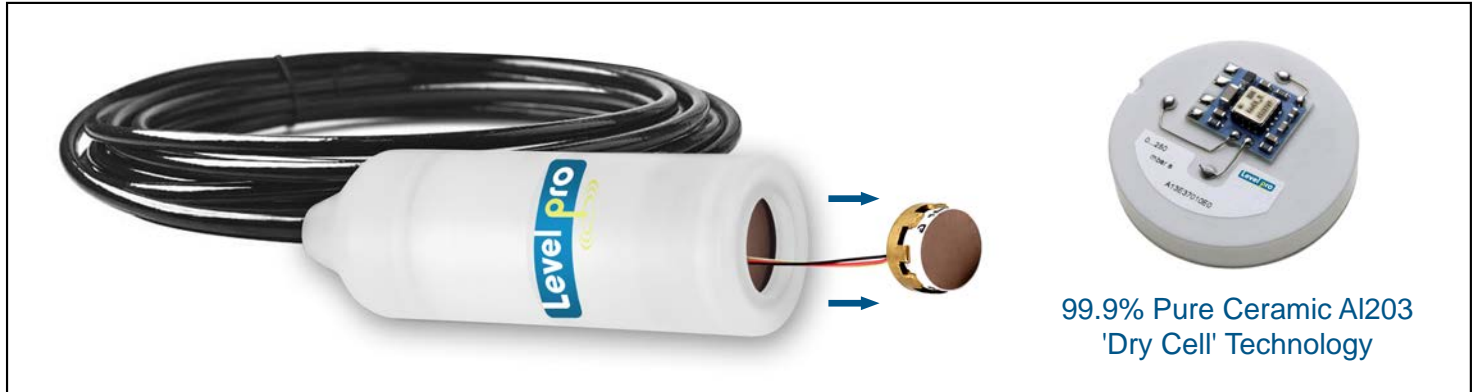
Electrical Connection

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

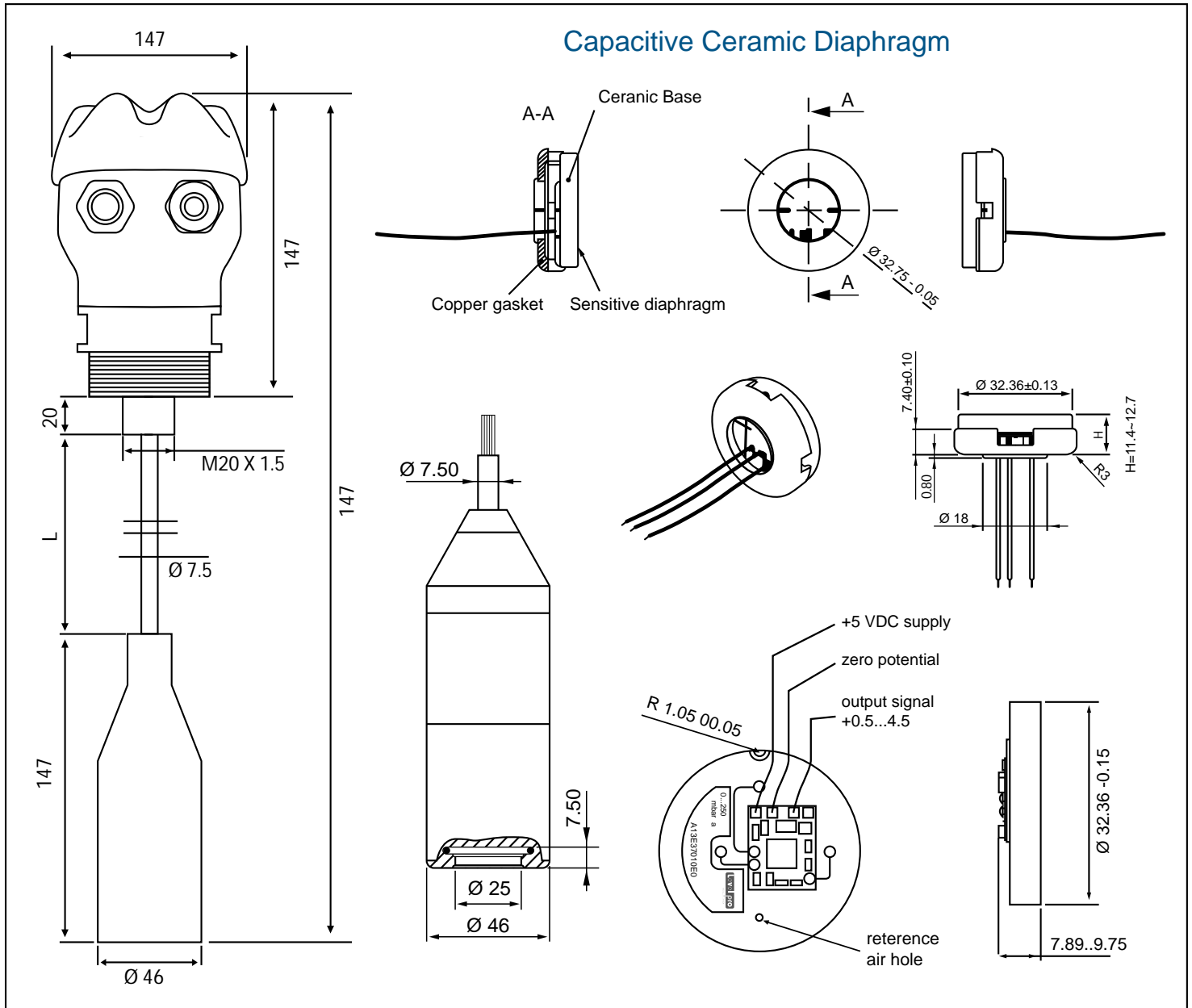
Materials | Wetted

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

Capacitive Ceramic Sensing Diaphragm



Dimensions | mm



Miscellaneous

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

Wiring Diagram

2-wire-system | 4-20mA

Electrical Connection

24VDC	Cable Colours
Supply +	Red
Supply -	Black
Ground	Yellow

Ordering Code 200C Series

									1	1	3	3	1				
Pressure																	
ft/H2O		2	0	0													
Input		ft/H2O															
	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										
	PTFE						PT	1	1	3	3						
Cable Length																	
Note: Consult Factory for Different Level Ranges		5	10	15	20	25											

* Cable comes Equipped with Integrated Air Tube for Atmospheric Pressure Reference

