

- Works on Foam | Vapor | Turbulence
- Excellent Chemical Resistance
- Level + Temperature
- Teflon® Jacketed Cable
- High Accuracy

316 SS

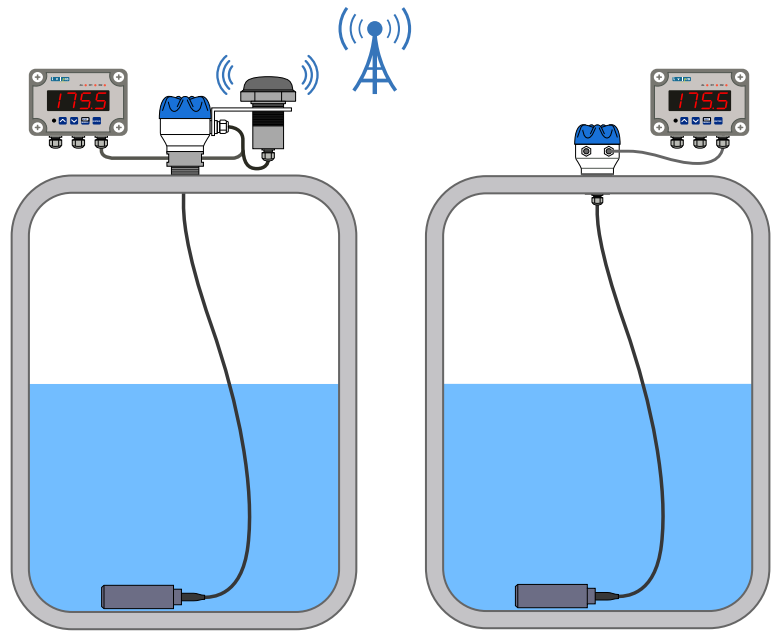
FFKM

PTFE

SERIES: 316 SS
BODY: 316L SS
O-Ring SEALS: FFKM



The 300S Series Transmitter is Designed for Continuous Level Measurement of Aggressive Liquid Media



Pressure Measurement

- ▶ Tanks | Sumps > 100 ft Range

Output Signal

- ▶ 4-20mA | 0.5-4.5 | 0.5-4.5
Ratiometric | RS-485

Features

- ▶ Measures Level & Temperature*
- ▶ 316L SS Sensing Diaphragm
- ▶ High Accuracy
- ▶ Non Clogging Design
- ▶ PTFE Teflon® Jacketed Cable or PUR Cable
- ▶ Excellent for Foam | Vapor | Condensate
- ▶ Heavy Duty Rugged Design
- ▶ No Moving Parts
- ▶ Automatic Temperature Compensation

* Model 300ST

Applications



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



- Acids + Bases
 - Bulk Chemicals
 - Chemical Day Tanks
 - Plating Tanks
 - PH Control Tanks
 - Storage Tank Monitoring
- ▶ **The Solution to Tough Applications Where Ultrasonic Sensors Simply DO NOT WORK!**
- ▶ **No Lost Signals**

Input Pressure Range

Level M/H ₂ O		2	5	10	X	* Consult Factory for Levels > 10M
Overpressure	psi	210	290	210		
Burst Pressure >	psi	290	580	290		
Temperature	F	32° - 212° Note: Compensated Temperature Range is -13° F- 178° F				

Output Signal

Unit Dependant	4-20mA 0.5-4.5VDC Ratiometric 0.5-4.5VDC RS-485 HART
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Power Supply

DC Power Only	4-20mA } 24 VDC 0.5-4.5VDC Ratiometric 0.5-4.5VDC } 5VDC RS-485 HART } 24VDC
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Performance

Accuracy ¹	Standard Nominal Pressure > 5.8 psi ≤ ± 0.5 % FSO IEC 60770 2:
Permissible Load	Current 2-wire $R_{max} = [(V_S - V_{S\ min}) / 0.02\ A] \Omega$ Voltage 3-wire $R_{min} = 10\ k\Omega$
Influence Effects	Supply 0.05 % FSO / 10 V Load 0.05 % FSO / k Ω
Long Term Stability	<± 0.1% FSO / year
Response Time	<10 msec

¹Test standard: GB/T28474 | IEC60770 | Linear output, Zero(0) based-calibration span | Limit Point Adjustment | Non-Linearity | Hysteresis | Repeatability. The overall performance of the 300S including but not limited to environmental temperature, comprehensive error and reference accuracy

Thermal Effects | Offset and Span

Thermal Error	<± 0.2%FSO/K in Compensated Range -13° F - 178° F -25°C - 85°C
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Permissible Temperatures

Permissible Temperatures	Media -40°F to 178°F -40 - 85°C Storage -40°F to 178°F -40°C - 85°C
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Electrical Protection

Short-Circuit Protection	Permanent
Reverse Polarity Protection	No Damage to Sensor } No Function
Electromagnetic Compatibility	Emission Immunity According to EN 61326
Power Supply	24VDC 5VDC

Electrical Connection

Jacketed Cable	PTFE Teflon® -40 - 200°F
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cable capacitance: signal line/shield also signal line/signal line: 160 pF/m cable inductance:signal line/shield also signal line/signal line: 1 μ H/m
3 or 4 Wire Cable with Integrated Air Tube for Atmospheric Pressure Reference

Materials | Wetted

Housing	316L SS
Diaphragm Seal	Welded 316L SS
Diaphragm	316L SS

