### **300S SERIES**

### **Continuous Submersible Level Transmitter**



- Works on Foam | Vapor | Turbulence
- Excellent Chemical Resistance
- 316L SS
- Teflon® Jacketed Cable
- High Accuracy



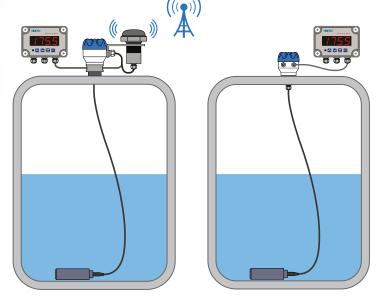


SERIES: 316SS BODY: 316L SS

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 | RS485

#### **Features**

- Acids | Bases
- 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

### **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



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#### **Input Pressure Range**

Level M/H <sub>2</sub> O		2	5	10	Х	* Consult Factory for Levels > 10M
Overpressure	psi	210	290	210		
Burst Pressure >	psi	290	580	290		

#### **Output Signal**

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

#### **Performance**

Accuracy <sup>1</sup>	Standard Nominal Pressure > 5.8 psi ≤ ± 0.5 % FSO IEC 60770 2:		
Permissible load	Current 2-wire I R <sub>max</sub> = [(V <sub>S</sub> - V <sub>S min</sub> ) / 0.02 A] $\Omega$ Voltage 3-wire I R <sub>min</sub> = 10 k $\Omega$		
Influence effects	Supply I 0.05 % FSO / 10 V I Load I 0.05 % FSO / kΩ		
Long term stability	<± 0.1% FSO / year		
Response time	<10 msec		
<sup>1</sup> Test standard: GB/T28474   IEC60770   Linear output, Zero(0) based-calibration span   Limit Point Adjustment   Non-Linearity   Hysteresis			

<sup>&</sup>lt;sup>1</sup>Test 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	Thermal Error	<± 0.2%FSO/K
	momar End	in Compensated Range   -13° F - 178° F   -25° C - 85° C

## **Permissible Temperatures**

Permissible Temperatures	Media I -40°Fto 178°F   -40 - 85°C	II Storage   -40°Fto 178°F I -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	Emmison Immunity According to EN 61326
Power Supply	24VDC   5VDC

#### **Electrical Connection**

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

### **Materials | Wetted**

Housing	316L
Diaphragm Seal	Welded 316L
Diaphragm	316L



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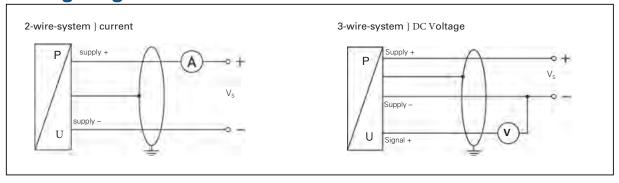


## **Miscellaneous**

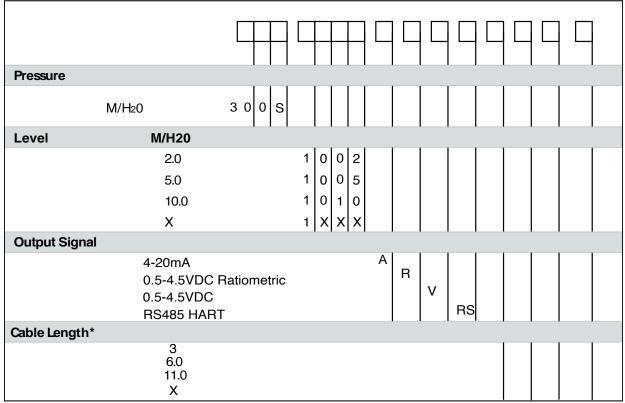
Current Consumption	Max.25mA
Weight	Approx. 280g   Cable Not Included
Ingress Protection	IP68
CE-Conformity	EMC Directivel 2004l30EU   Pressure Equipment Directive   2014l68   EU
ATEX Directive**	* Option - PTB97 ATEX 1068 U
Operational Life	> 100 million load cycles @ 77°F I 25°C
Current Consumption	Signal Output Current I max 25mA II Signal Output Voltage I max 7mA

# **Wiring Diagram**

Per IEC 61298-3|GB|T1827.3 | 20g  $\,$  | Maximum Vibration Value < 3mm | 5-2000HZ



# **Ordering Code 300S Series**



DC Power Only





