## **Description & Features:**

- Slimline probe is especially suited for applications with restricted space
- Designed for continuous level measurement in water or other liquids with low
- 316L SS probe with stainless steel sensor for ease in cleaning
- Available ranges from H<sub>2</sub>O up to 300 psi
- ±0.35% accuracy rating
- NEMA 6P / IP68
- Approved for outdoor use
- Customizable
- 1 year warranty





## **Applications:**

Appropriate for all hazardous areas where an intrinsically safe rating is required, including oil & gas, chemical and sewage treatment installations

Specifications           Output Signal         Standard 2-wire: 4-20 mA / Vs = 12-36 Vdc           4ccuracy         ±0.35% FSO BFSL Optional nominal pressure > 5 psi: <±0.25% FSO BFSL           Permissible Load         Rmax = [(Vs - Vs min) / 0.02] Ohm           Influence Effects         Supply: 0.05% FSO / 10 V Load: 0.05% FSO / kOhm           Long-term Stability         <±0.1% FSO/yr           Response Time         <10 ms           Permissible Temperatures         Medium: 14°F to 158°F (-10°C to 70°C)           Storage: -13°F to 158°F (-25°C to 70°C)           Reverse Polarity Protection         No damage. No function.           Electromagnetic Protection         Emission and immunity according to EN 61326           Electrical Connection         Cable with sheath material*: PVC grey, PUR black, FEP black           Housing         316Ti SS           Seals         FKM (Viton®, Kalrez®) / EPDM (Nordel®)           Diaphragm         316L SS           Weight         100 g (without cable)           Current Consumption         25 mA max           Connecting Cables         Cable capacitance: Signal line/shield and signal line/signal line: 1 μH/m           Enclosure Rating         NEMA 6P / IP68		Соприм			
Accuracy  ±0.35% FSO BFSL Optional nominal pressure > 5 psi: <±0.25% FSO BFSL  Permissible Load  Influence Effects  Supply: 0.05% FSO / 10 V Load: 0.05% FSO / kOhm  Long-term Stability  <±0.1% FSO/yr  Response Time  Permissible Temperatures  Medium: 14°F to 158°F (-10°C to 70°C) Storage: -13°F to 158°F (-25°C to 70°C)  Reverse Polarity Protection  Electromagnetic Protection  Emission and immunity according to EN 61326  Electrical Connection  Cable with sheath material*: PVC grey, PUR black, FEP black  Housing  316Ti SS  Seals  FKM (Viton®, Kalrez®) / EPDM (Nordel®)  Diaphragm  316L SS  Weight  100 g (without cable)  Current Consumption  Cable capacitance: Signal line/shield and signal line/signal line: 160 pF/m Cable inductance: Signal line/shield and signal line/signal line: 1 μH/m		Specifications			
Accuracy       Optional nominal pressure > 5 psi: <±0.25% FSO BFSL	Output Signal	Standard 2-wire: 4-20 mA / Vs = 12-36 Vdc			
Influence Effects  Supply: 0.05% FSO / 10 V Load: 0.05% FSO / kOhm <ul> <li>4±0.1% FSO/yr</li> <li>Response Time</li> <li>Medium: 14°F to 158°F (-10°C to 70°C)</li> <li>Storage: -13°F to 158°F (-25°C to 70°C)</li> </ul> Reverse Polarity Protection  Reverse Polarity Protection  Electromagnetic Protection  Emission and immunity according to EN 61326  Electrical Connection  Cable with sheath material*: PVC grey, PUR black, FEP black Housing  316Ti SS  Seals  FKM (Viton®, Kalrez®) / EPDM (Nordel®)  Diaphragm  316L SS  Weight  100 g (without cable)  Current Consumption  Cable capacitance: Signal line/shield and signal line/signal line: 160 pF/m Cable inductance: Signal line/shield and signal line/signal line: 1 µH/m	Accuracy				
Influence EffectsLoad: 0.05% FSO / kOhmLong-term Stability<±0.1% FSO/yr	Permissible Load	Rmax = [(Vs - Vs min) / 0.02] Ohm			
Response Time       <10 ms         Permissible Temperatures       Medium: 14°F to 158°F (-10°C to 70°C) Storage: -13°F to 158°F (-25°C to 70°C)         Reverse Polarity Protection       No damage. No function.         Electromagnetic Protection       Emission and immunity according to EN 61326         Electrical Connection       Cable with sheath material*: PVC grey, PUR black, FEP black         Housing       316Ti SS         Seals       FKM (Viton®, Kalrez®) / EPDM (Nordel®)         Diaphragm       316L SS         Weight       100 g (without cable)         Current Consumption       25 mA max         Connecting Cables       Cable capacitance: Signal line/shield and signal line/signal line: 160 pF/m Cable inductance: Signal line/shield and signal line/signal line: 1 μH/m	Influence Effects				
Permissible Temperatures       Medium: 14°F to 158°F (-10°C to 70°C)         Storage: -13°F to 158°F (-25°C to 70°C)         Reverse Polarity Protection       No damage. No function.         Electromagnetic Protection       Emission and immunity according to EN 61326         Electrical Connection       Cable with sheath material*: PVC grey, PUR black, FEP black         Housing       316Ti SS         Seals       FKM (Viton®, Kalrez®) / EPDM (Nordel®)         Diaphragm       316L SS         Weight       100 g (without cable)         Current Consumption       25 mA max         Cable capacitance: Signal line/shield and signal line/signal line: 160 pF/m Cable inductance: Signal line/shield and signal line/signal line: 1 μH/m	Long-term Stability	<±0.1% FSO/yr			
Temperatures  Storage: -13°F to 158°F (-25°C to 70°C)  Reverse Polarity Protection  No damage. No function.  Electromagnetic Protection  Emission and immunity according to EN 61326  Electrical Connection  Cable with sheath material*: PVC grey, PUR black, FEP black  Housing  316Ti SS  Seals  FKM (Viton®, Kalrez®) / EPDM (Nordel®)  Diaphragm  316L SS  Weight  100 g (without cable)  Current Consumption  Cable capacitance: Signal line/shield and signal line/signal line: 160 pF/m Cable inductance: Signal line/shield and signal line/signal line: 1 μH/m	Response Time	<10 ms			
Protection       No damage. No function.         Electromagnetic Protection       Emission and immunity according to EN 61326         Electrical Connection       Cable with sheath material*: PVC grey, PUR black, FEP black         Housing       316Ti SS         Seals       FKM (Viton®, Kalrez®) / EPDM (Nordel®)         Diaphragm       316L SS         Weight       100 g (without cable)         Current Consumption       25 mA max         Cable capacitance: Signal line/shield and signal line/signal line: 160 pF/m Cable inductance: Signal line/shield and signal line/signal line: 1 μH/m					
Protection       Emission and immunity according to EN 61326         Electrical Connection       Cable with sheath material*: PVC grey, PUR black, FEP black         Housing       316Ti SS         Seals       FKM (Viton®, Kalrez®) / EPDM (Nordel®)         Diaphragm       316L SS         Weight       100 g (without cable)         Current Consumption       25 mA max         Cable capacitance: Signal line/shield and signal line/signal line: 160 pF/m Cable inductance: Signal line/shield and signal line/signal line: 1 μH/m		No damage. No function.			
Housing       316Ti SS         Seals       FKM (Viton®, Kalrez®) / EPDM (Nordel®)         Diaphragm       316L SS         Weight       100 g (without cable)         Current Consumption       25 mA max         Connecting Cables       Cable capacitance: Signal line/shield and signal line/signal line: 160 pF/m Cable inductance: Signal line/shield and signal line/signal line: 1 μH/m		Emission and immunity according to EN 61326			
Seals       FKM (Viton®, Kalrez®) / EPDM (Nordel®)         Diaphragm       316L SS         Weight       100 g (without cable)         Current Consumption       25 mA max         Connecting Cables       Cable capacitance: Signal line/shield and signal line/signal line: 160 pF/m Cable inductance: Signal line/shield and signal line/signal line: 1 μH/m	Electrical Connection	Cable with sheath material*: PVC grey, PUR black, FEP black			
Diaphragm       316L SS         Weight       100 g (without cable)         Current Consumption       25 mA max         Connecting Cables       Cable capacitance: Signal line/shield and signal line/signal line: 160 pF/m Cable inductance: Signal line/shield and signal line/signal line: 1 μH/m	Housing	316Ti SS			
Weight       100 g (without cable)         Current Consumption       25 mA max         Cable capacitance: Signal line/shield and signal line/signal line: 160 pF/m Cable inductance: Signal line/shield and signal line/signal line: 1 μH/m	Seals	FKM (Viton®, Kalrez®) / EPDM (Nordel®)			
Current Consumption  25 mA max  Cable capacitance: Signal line/shield and signal line/signal line: 160 pF/m Cable inductance: Signal line/shield and signal line/signal line: 1 μH/m	Diaphragm	316L SS			
Cable capacitance: Signal line/shield and signal line/signal line: 160 pF/m Cable inductance: Signal line/shield and signal line/signal line: 1 μH/m	Weight	100 g (without cable)			
Connecting Cables  160 pF/m Cable inductance: Signal line/shield and signal line/signal line: 1 μH/m	Current Consumption	25 mA max			
Enclosure Rating NEMA 6P / IP68	Connecting Cables	160 pF/m Cable inductance: Signal line/shield and signal line/signal line:			
	Enclosure Rating	NEMA 6P / IP68			

Thermal Errors (Offset and Span)							
Nominal Pressure (psi)	<1	<4	<5	<15	>15		
Tolerance Band (% FSO)	<±2	<±1.5	<±1	<±1	<±0.75		
TC, Average (% FSO/10K)	±0.3	±0.2	±0.14	±0.1	±0.07		
Compensated Range	32°F to 122°F			32°F to 158°F			
Compensated Range	0°C to 50°C			0°C to 70°C			

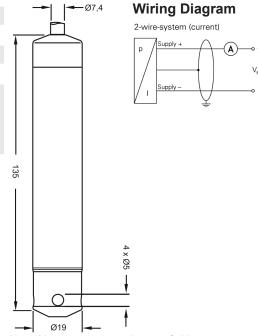
Pin Configuration					
Electrical Connection		Cable Colours			
2-wire system	Supply + Supply -	White Brown			
	Ground	Yellow/green (shield)			

<sup>\*</sup> Cable with integrated air tube for atmosphere pressure reference

## **Order Codes**

Oraci Ooacs						
Range	Over- pressure	Burst Pressure	Code			
0/50" water	15 psi	22 psi	LM3W05			
0/100" water	15 psi	22 psi	LM3W10			
0/150" water	15 psi	22 psi	LM3W15			
0/200" water	15 psi	22 psi	LM3W20			
0/300" water	15 psi	22 psi	LM3W30			
0/400" water	15 psi	22 psi	LM3W40			
0/5 psi	15 psi	44 psi	LM3005			
0/10 psi	44 psi	109 psi	LM3010			
0/15 psi	44 psi	109 psi	LM3015			
0/25 psi	87 psi	218 psi	LM3025			
0/50 psi	290 psi	218 psi	LM3050			
0/100 psi	290 psi	725 psi	LM3100			
0/200 psi	870 psi	1,740 psi	LM3200			
0/300 psi	1,450 psi	1,740 psi	LM3300			
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Note: Measurements are in mm. Cable not

included (specify type and length)