

Description and Features:

- Designed for continuous level measurement in water or other liquids with low viscosity
- 316L SS probe with stainless steel sensor for ease of cleaning
- Available ranges from H2O up to 300 psi
- ±0.1% and ±0.35% accuracy ratings
- NEMA 6P / IP68. Approved for outdoor use. Explosion proof option available
- Customizable
- 1 year warranty

Applications:

Typical installations include ground or tank level monitoring of water and sewage treatment measurement

Standard 2-wire: 4-20 mA / Vs = 12-36 Vdc
Ex-protection: Vs = 14-28 Vdc
Accuracy Optional nominal pressure > 5 psi: <±0.25% FSO BFSL > 2 psi: <±0.1% FSO BFSL Current 2-wire: Rmax = [(Vs - Vs min) / 0.02] Ohm Current 3-wire: Rmax = 500 Ohm Voltage 3-wire: Rmin = 10 kOhm Influence Effects Long-term Stability <±0.1% FSO/yr <10 msec* Medium: 14°F to 158°F (-10°C to 70°C)
Permissible Load Current 3-wire: Rmax = 500 Ohm Voltage 3-wire: Rmin = 10 kOhm Influence Effects Supply: 0.05% FSO / 10 V Load: 0.05% FSO / kOhm Long-term Stability <±0.1% FSO/yr <10 msec* Medium: 14°F to 158°F (-10°C to 70°C)
Load: 0.05% FSO / kOhm Long-term Stability <±0.1% FSO/yr Response Time <10 msec* Medium: 14°F to 158°F (-10°C to 70°C)
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Temperatures Zone 1 or higher: 14°F to 158°F (-10°C to 70°C) Storage: -13°F to 158°F (-25°C to 70°C)
Reserve Polarity Protection No damage. No function.
Electromagnetic Compatibility Emission and immunity according to EN 61326
Zone 0¹: II 1 G Ex ia IIC T4 Zone 20: II 1 D Ex tD A20 IP65 T185°F (85°C) Safety technical max values: Vi = 28 V, Ii = 93 mA, Pi = 660 mW, Ci<1nF, L<10µH
Electrical Connection Cable with sheath material ² : PVC grey, PUR black, FEP black, others available
Pollution Degree 4, electrical equipment for outdoor use
Housing 316Ti SS
Seals FKM, others available
Diaphragm 316L SS
Weight 200 g (without cable)
Current Consumption Current: 25 mA max Voltage: 7 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
Enclosure Rating NEMA 6P / IP68

Note: Intrinsically safe approval only applies to 4-20 mA output signal

- * With optional accuracy 0.1% FSO the response time is 200 msec
- ¹ Approved for atmospheric pressure from 12 to 16 psi
- ² Cable with integrated air tube for atmospheric pressure reference

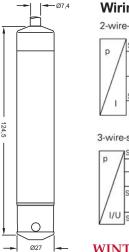
Note: Measurements are in mm. Total length of devices with accuracy 0.1% FSO IEC 60770 increases by 35mm (standard, Ex and SIL models)

Order Codes

Range	Over- pressure	Burst Pressure	Code
50" H2O	15 psi	22 psi	LM6W05
100" H2O	15 psi	22 psi	LM6W10
150" H2O	15 psi	15 psi 22 psi	
200" H2O	15 psi	22 psi	LM6W20
300" H2O	15 psi	22 psi	LM6W30
400" H2O	15 psi	22 psi	LM6W40
0-5 psi	15 psi	22 psi	LM6005
0-10 psi	44 psi	109 psi	LM6010
0-15 psi	44 psi	109 psi	LM6015
0-25 psi	87 psi	218 psi	LM6025
0-50 psi	290 psi	218 psi	LM6050
0-100 psi	290 psi	725 psi	LM6100
0-200 psi	870 psi	1,740 psi	LM6200
0-300 psi	1,450 psi	1,740 psi	LM6300

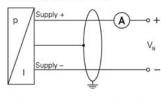
Thermal Errors (Offset and Span)						
Nominal Pressure (psi)	<1	<4	<6	<15	>15	
Tolerance Band (% FSO)	<±2	<±1.5	<±1	<±1	<±0.75	
TC, Average (% FSO/10K)	±0.3	±0.2	±0.14	±0.1	±0.07	
Compensated Range	32°F to 122°F 0°C to 50°C				o 158°F o 70°C	

Pin Configuration						
Electrical Connection		Cable Colours (DIN 47100)				
2-wire system	Supply+	White				
	Supply-	Brown				
	Ground	Yellow/green (shield)				
3-wire system	Supply+	White				
	Supply-	Brown				
	Signal+	Green				
	Ground	Yellow/green (shield)				

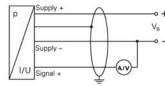


Wiring Diagram

2-wire-system (current)



3-wire-system (current / voltage)



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