

**Description and Features:**

- Designed for continuous level measurement in water or wastewater (thin film)
- Good linearity for long term stability
- Available ranges include up to 300 psi
- Wide range of mechanical and electrical connections
- $\pm 0.5\%$ accuracy
- NEMA 6P / IP68. Approved for outdoor use. Explosion proof option available
- Customizable
- 1 year warranty

Applications:

- Appropriate for all level and depth measurement applications including open tanks, ground water monitoring, sewage and water treatment facilities

Specifications

Output Signal	Standard 2-wire: 4-20 mA / $V_s = 12-36$ Vdc Optional Ex-protection 2-wire: 4-20 mA / $V_s = 14-28$ Vdc Optional 3-wire: 0-20 mA / $V_s = 14-36$ Vdc 0-10 V / $V_s = 14-36$ Vdc
Accuracy	$< \pm 0.5\%$ FSO BFSL
Permissible Load	Current 2-wire: $R_{max} = [(V_s - V_{s\ min}) / 0.02]$ Ohm Current 3-wire: $R_{max} = 500$ Ohm Voltage 3-wire: $R_{min} = 10$ kOhm
Influence Effects	Supply: 0.05% FSO / 10 V Load: 0.05% FSO / kOhm
Response Time	< 10 msec
Thermal Error	$< \pm 0.2\%$ FSO / 10K
Permissible Temperatures	Medium: 14°F to 158°F (-10°C to 70°C) Storage: -13°F to 158°F (-25°C to 70°C)
Short Circuit Protection	Permanent
Reverse Polarity Protection	No damage. No function.
Electromagnetic Protection	Emission and immunity according to EN 61326
Ex-protection Option	Zone 0: II 1 G Ex ia IIC T4 Zone 20: II 1 D Ex tD A20 IP65 T185°F (85°C) Safety technical max values: $U_i = 28$ V, $I_i = 93$ mA, $P_i = 660$ mW, $C_i < 1$ nF, $L < 10$ μ H
Permissible Media Temperature	Zone 0: 14°F to 140°F (-10°C to 60°C) with p_{atm} 12 up to 16 psi Zone 1: 14°F to 158°F (-10°C to 70°C)
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 μ H/m
Electrical Connection	Cable with sheath material ¹ : PVC grey, PUR black, FEP black
Pollution Degree	4, electrical equipment for outdoor use
Housing	316Ti SS
Seals	FKM (Viton®, Kalrez®) / EPDM
Diaphragm	Ceramic Al ₂ O ₃ 96%
Protection Cap	POM
SIL 2 Option	IEC 61508 / IEC 61511
Current Consumption	Current: 25 mA max Voltage: 7 mA max
Weight	250 g (without cable)
Enclosure Rating	NEMA 6P / IP68
CE Conformity	EMC directive: 2004/108/EC

Order Codes

Range	Over-pressure	Burst Pressure	Code
0-8 psi	9 psi	58 psi	LM7008
0-15 psi	29 psi	58 psi	LM7015
0-20 psi	58 psi	73 psi	LM7020
0-35 psi	58 psi	73 psi	LM7035
0-60 psi	145 psi	174 psi	LM7060
0-100 psi	145 psi	174 psi	LM7100
0-160 psi	290 psi	363 psi	LM7160
0-200 psi	580 psi	725 psi	LM7200
0-300 psi	580 psi	725 psi	LM7300

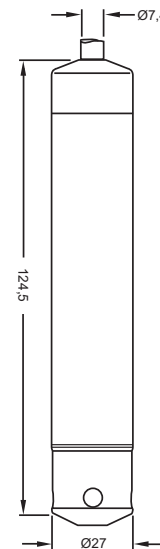
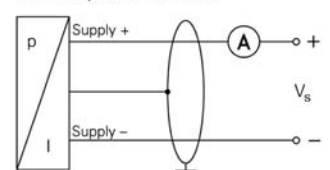
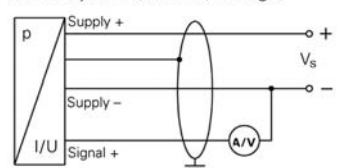
Pin Configuration

Electrical Connection	Cable Colours (DIN 47100)
Supply+	White
Supply-	Brown
Signal+ (only 3-wire)	Green
Shield	Yellow/green

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

¹ Shielded cable with integrated air tube for atmospheric pressure reference

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**Wiring Diagram****2-wire-system (current)****3-wire-system (current / voltage)**

Note: Measurements are in mm