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CONNECT

Specification Sheet

McCrometer CONNECT Level Sensors LEVEL-WATCH and LEV1



LEVEL-WATCH Sensor



LEV1 Level Sensor

McCrometer CONNECT offers two level sensors, the LEVEL-WATCH and the LEV1. Both sensors are suitable for a wide range of applications. These highly accurate sensors are ideal for measuring the water level of streams, rivers, reservoirs, irrigation ditches, wells and tanks. Each McCrometer CONNECT level sensor is available for different measuring ranges. Please consult Selection area on the back of the page for ordering details.

Specifications

	LEVEL-WATCH	LEV1
Type of Reading	Hydrostatic pressure, relative (compensated against barometric pressure)	Hydrostatic pressure, relative (compensated against barometric pressure)
Measurement Ranges	5 PSI (11.53 feet w.c.); 15 PSI (34.60 feet w.c.)	0-5 m range: (7.11 PSI, 16.40 feet w.c.) 0-10 m range: (14.22 PSI, 32.81 feet w.c.) 0-30 m range: (42.67 PSI, 98.43 feet w.c.)
Pressure Limit	2x FS	290 PSI (20 bar) max press.
Output Signal		
Standard	4 to 20mA DC 2- wire	0.1 to 2.5V DC
Optional	1 to 5V DC with LEVEL-WATCH Interface	N/A
Power Supply	Voltage: 10 to 33V DC. Max Loop Resistance: 1000 Ω @ 30VDC; Current: 20mA DC; Warm-up time: < 50 ms	Voltage: 3.2 to 12V DC; Current: 2mA DC; Warm-up time: 2 S
Temperature Range		
Storage	-4 to 176°F (-20 to 80°C) warranty void if water present when below freezing	Warranty void if water present when below freezing
Operating	Thermal Effect: 0.25%: $\pm 0.45\%$ FS TEB; 0.10%: $\pm 0.30\%$ FS TEB	-40 to 80°C
Compensated Range	0.25%: (0 to 70°C); 0.10%: (0 to 60°C)	0 to 80°C
Accuracy	$\pm 0.25\%$ or $\pm 0.10\%$ of FS (See compensated ranges above)	$\pm 0.1\%$ FS
Long Term Stability		Range < 2 bar: 1mbar, Range > 2 bar: 0.1% FS
Electrical Protection	Surge/lightning protected per EN61000-4-5, Class 5 (not guaranteed or covered by standard warranty)	Surge/lightning damage not guaranteed or covered by standard warranty
Type Approvals	CE	CE
Connections		
Cable Length	5 PSI model: 20 feet vented (6.1 m)	49.2 feet (15 m) vented sensor to breather box / 6.5 feet (2 m) breather box to RTU. Additional cable length(s) available upon request
Jacket Material	Polyether polyurethane	Polyethylene (PE)
Termination	Wire pigtail: Red=Supply Voltage, Black=Signal, Shield=Ground	7-pin M9 Binder male
Case	Body and nose: 316 SS, Seals: Fluoroelastomer, Label: Polyethylene polyamid	Material in Contact with Media: Stainless Steel 316L (DIN 1.4435) / Viton / PE
Dimensions	6.25 in. x 0.628 in. dia. (158.30 mm x 15.87 mm dia.)	3.74 x 0.9 in. dia. (95 mm x 22 mm dia.)
Mounting	Suspended below point being monitored	Suspended below point being monitored
Weight	Body: 0.235 lb (0.107 kg); Cable: 0.037 lb (0.009 kg) per foot	1.5 lb (689 g)

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