



MODEL H-3123

SUBMERSIBLE PRESSURE TRANSDUCER

The WaterLOG® model **H-3123** is a Submersible Pressure Transducer used to accurately measure water level/pressure. Transmit data digitally over long cable lengths of up to 1000 feet (304.8 m).

APPLICATIONS

Accurately measure ground and surface water pressure, temperature and levels.

KEY FEATURES

- Linear deviation is less than 0.02%
- Accuracy over temperature range exceeds ± 0.01 ft (3mm) of water
- Stainless steel sensor diaphragm, ballast, and casting
- SDI-12 Output
- Polyurethane vented sensor cable is durable and rugged
- Dry air moisture barrier system provides atmospheric compensation
- No on-site calibration required



H-3123



a xylem brand

SPECIFICATIONS

PERFORMANCE		
Accuracy	Pressure	Less than or equal to 0.02% of full scale output (FSO) over temperature range
	Pressure Hysteresis	Less than 0.02% of FSO
	Linearity	Less than 0.02% deviation
	Temperature	Internal temperature $\pm 1^{\circ}\text{C}$ over temperature range
	Long-term Stability	Drift is less than $\pm 0.10\%$ of FSO per year
Resolution	Pressure	1 part in 1,000,000 (0.0001%)
	Temperature	1 part in 1,000,000 (0.0001%)
Range	PSI ranges: 15, 30, 50 or 100	
	Pressure	Depth Accuracy
	0 to 15 PSI	0 to 34.60 ft. (10.54 m) ± 0.007 ft. (2 mm)
	0 to 30 PSI	0 to 69.20 ft. (21 m) ± 0.014 ft. (4 mm)
General	Pressure Overload	Less than 2 times the rated pressure
	Media Compatibility	Liquids and gases compatible with stainless steel and polyurethane.
	Dry Air System	Prevents moisture from condensing in the submersible pressure transducer. Provides compensation for changes in atmospheric pressure without impairing the sensor's accuracy.
MECHANICAL / POWER		
Size	Housing	0.875 in. max W x 6.5 in. L (22.2 mm x 165 mm)
Material	Housing	316 L stainless steel with polyurethane vent tubing
Power Requirements	Voltage Input	9.6 to 16.0 volts DC
	Current	Standby: 1 mA maximum Active: 15 mA maximum
Connector	Cables	10 ft. (3.048 m) Cable (H-3123 to junction box): Polyurethane jacket, vented, shielded, three-wire cable. *Stainless steel cable not necessary. UV vented cable sold separately.
General	Cable Length	Maximum: 1000 ft. (304.8 m)
	Protection	On-board transient surge protection 1.5KVA
COMMUNICATION		
SDI-12	Baud Rate	1200
	Protocol	SDI-12, V1.3
	Response Time	4-second measurement sequence

ENVIRONMENTAL		
General	Operating Temperature	0° to 40° C (non-freezing)
	Compensated Temperature	0° to 40° C
	Storage Temperatures	-10° to 75° C
MISCELLANEOUS		
Accessories	H-3123-DAA	Dry Air Assembly
	H-3123-MB	Media Barriers
	H-3123-VC	Vented Cable (price per foot)
	H-3123-H	Vented Cable Mesh Grip Hanger
H-306	Dry Air System Desiccant Pack (10/pack)	
Warranty	The WaterLOG® H-3123 is warranted against defects in materials and workmanship for one year from date of shipment.	
Note	Specifications subject to change without prior notice due to ongoing commitment to product testing and improvement. LR June 2015. (D06-04 0615)	



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