



MODEL H-3123

SUBMERSIBLE PRESSURE TRANSDUCER

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

APPLICATIONS

Accurately measure ground and surface water pressure, temperature, and levels in storm water stations, stream gauge sites, waste water facilities, aquifer monitoring, and hydrometeorological systems.

KEY FEATURES

- Accuracy over temperature range $\leq 0.02\%$ FS. For our 15 psi range this exceeds 3mm (± 0.01 ft) of water
- Dry air moisture barrier system provides atmospheric compensation
- No on-site calibration required
- Stainless steel sensor diaphragm, ballast, and casting
- SDI-12 Output
- Polyurethane vented sensor cable is durable and rugged



H-3123



a xylem brand

SPECIFICATIONS

| PERFORMANCE | | | |
|--------------------|-------------------------------|---|-----------------------|
| Accuracy | Pressure | Less than or equal to 0.02% of full scale output (FSO) 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 103.4 kPa (15 psi) | 0 to 10.54 m (34.6 ft) | ± 2 mm (0.007 ft) |
| | 0 to 206.8 kPa (30 psi) | 0 to 21 m (69.2 ft) | ± 4 mm (0.01 ft) |
| | 0 to 344.7 kPa (50 psi) | 0 to 35.16 m (115.35 ft) | ± 7 mm (0.02 ft) |
| | 0 to 689.5 kPa (100 psi) | 0 to 70.3 m (230.7 ft) | ± 14 mm (0.05 ft) |
| 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 | 22.2 mm max W x 165 mm L (0.875 in max W x 6.5 in L) | |
| Material | Material | 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 | 3.048 m (10 ft) 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: 304.8 m (1000 ft) | |
| | 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 May, 2016. (D06-06 0516) | | |