



HLS SERIES

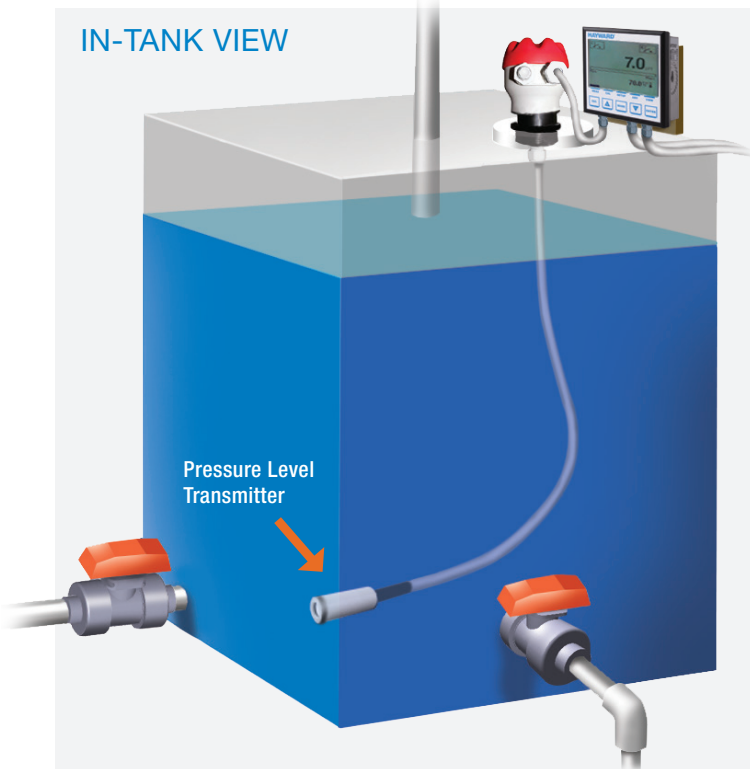
ADVANCED SUBMERSIBLE PRESSURE LEVEL TRANSMITTER

KEY FEATURES

- Unaffected by Surface Foaming, Waves or Headspace Vapors
- All CPVC Housing
- Al₂O₃ (Alumina) Diaphragm
- Triple Sealed Cable Entry into Body
- Available with FPM or EPDM Seals
- Available with 0-15 Ft or 0-33 Ft of Level Range
- 30 and 50 ft FEP Coated Cable Standard (Lengths to 1000 Feet Available)
- 10-35 VDC Powered
- Direct Analog 4-20mA Output Signal
- 0.25% Accuracy Full Scale
- Laser Printed Sensor Details on Body
- Full Range of Accessories Available
- HLSMP11 Moisture Protection Dessicant Pack Standard

TECHNICAL INFORMATION

IN-TANK VIEW



SPECIFICATIONS

DIMENSIONS LxDIA.	5.8 in long x 1.25 in dia. (14.7 cm long x 3.1 cm dia.)
RANGE	0-15 ft (6.5 psi) and 0-33 ft (14.3 psi) of water column
STANDARD CABLE LENGTH	30 ft with the 0-15 ft level sensor; 50 ft with the 0-33 ft level sensor
CABLE	Vented, 4 conductor, FEP cover
TEMPERATURE	30°F (non-freezing) to 140°F
TEMPERATURE EFFECTS	+/- 1.5% TEB (Total Error Band = linearity+hysteresis+ repeatability+zero and span settings+temperature effects)
POWER EQUIPMENT	10-35 VDC
OUTPUT SIGNAL	4-20 mA, scaled for full sensor range
BODY	CPVC per ASTM D1784, cell classification 23447

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SENSOR OUTPUT VS LIQUID HEIGHT

0-15 FOOT SENSORS, 1.0 S.G. LIQUID

Liquid Height ft / m	0	2.3 / 0.7	10 / 3	15 / 4.6
Pressure at sensor PSI / kPa	0	1.0 / 6.9	4.3 / 29.7	6.5 / 44.8
Output mA	4	6.45	14.7	20

0-33 FOOT SENSORS, 1.0 S.G. LIQUID

Liquid Height ft / m	0	10 / 3	20 / 6.1	33 / 10.1
Pressure at sensor PSI / kPa	0	4.3 / 29.6	8.7 / 60	14.3 / 98
Output mA	4	8.8	14.7	20

WIRING

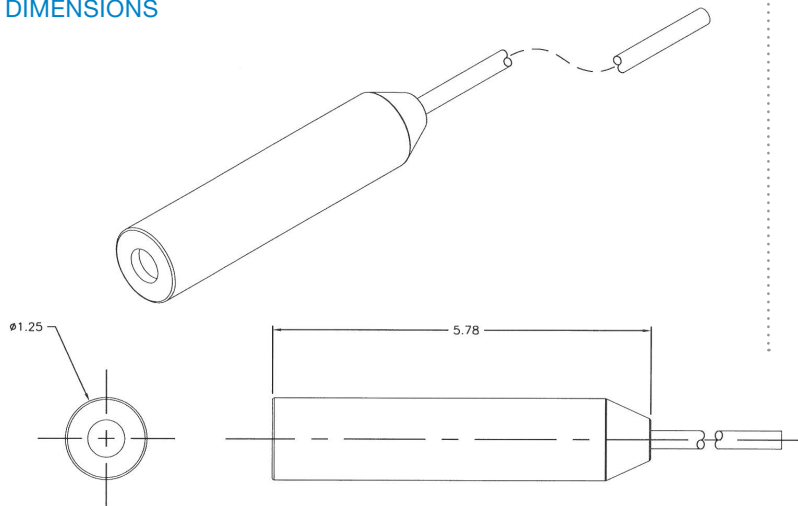
The FEP-coated cable provides four elements and a breather capillary. The Capillary must be protected from entry of moisture or debris, so an **HLSMP11 Moisture Protection Reference Volume** or equal device should be attached to the top of the capillary.

RED = 10-35 VDC +, 4-20mA +
 BLACK = 10-35 VDC -, 4-20mA -
 GREEN = Ground
 SILVER = Shield

ACCESSORIES

- Moisture Protection Volume
- Ceramic Sink Weights for High Specific Gravity Fluids
- HLST200 Indicating Level Transmitter, Configurable Display, Separate Temperature Channel

DIMENSIONS



Standard Moisture Protection Dessicant Pack



Optional Moisture Protection Volume



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