Data Sheet



SL17 Submersible Pressure Transmitter

FEATURES

- Predefined and custom cable lengths
- Small OD diameter design to fit narrow bore applications
- Utilizes Piezo-Resistive Technology (PRT)
- Optional NIST traceable calibration chart (9-point)
- IP68/NEMA 6P Housing
- Unit of measure selection (psig, bar, feet or meters of H₂O, customer defined)
- Complete 316L stainless steel construction
- 4-20 mA Output (2 wire)

TYPICAL USES

- Well monitoring
- Pump protection
- Tank level monitoring
- Municipal and industrial water
- Level (ground/bore)
- Wastewater
- Specialized OEM equipment









PERFORMANCE SPECIFICATIONS

70°F (21°C) Reference Temperature: **Engineer Units:** psi, bar, ft/m H₂O and customer defined 1.5 to 300 psi & equivalent (see table), gauge Ranges: pressure only (Based on cable vented to clean, dry, non-corrosive atmosphere or proper use of termination desiccant box)

Accuracy: ±0.25% of span, terminal point (>5 psi); $\pm 0.5\%$ of span, terminal point (<5 psi); Includes effects of linearity, hysteresis and repeatability

±0.25% of span

ENVIRONMENTAL SPECIFICATIONS

Temperature Limits:

Vibration & Shock:

Stability:

Storage: -20°C to 60°C (-4°F to 140°F) Compensated: -10°C to 40°C (14°F to 104°F) Operating: -10°C to 40°C (14°F to 104°F) (For non-frozen liquid applications only)

Temperature Effects $\pm 1\%$ TEB (>5 psi) $\pm 1.5\%$ of span, (-10°C to 40°C): terminal point (<5 psi)

0-100% RH (*Based on cable vented to clean, Humidity: dry, non-corrosive atmosphere or proper use

of termination desiccant box)

IEC 60068-2-6 (Based on sensor range)

Enclosure Ratings: NEMA 6P, IP68

KEY BENEFITS

- Provides a highly reliable platform for accurate control and monitoring of level and pressure
- Rugged construction
- Units of measure and cable lengths are customized for individual specifications
- Excellent long-term stability

ELINCTIONAL SPECIFICATIONS

FUNCTIONAL SPEC		
Overpressure (FS):	Proof:	Burst:
1.5 to ≤5 psi	3 X Range	5 X Range
10 psi	3 X Range	7.5 X Range
15 to ≤30 psi	2 X Range	5 X Range
75 psi	1.8 X Range	4.7 X Range
150 psi	2 X Range	4 X Range
300 psi	2 X Range	3 X Range
Maximum Turndown:	2:1 from original	sensor pressure range

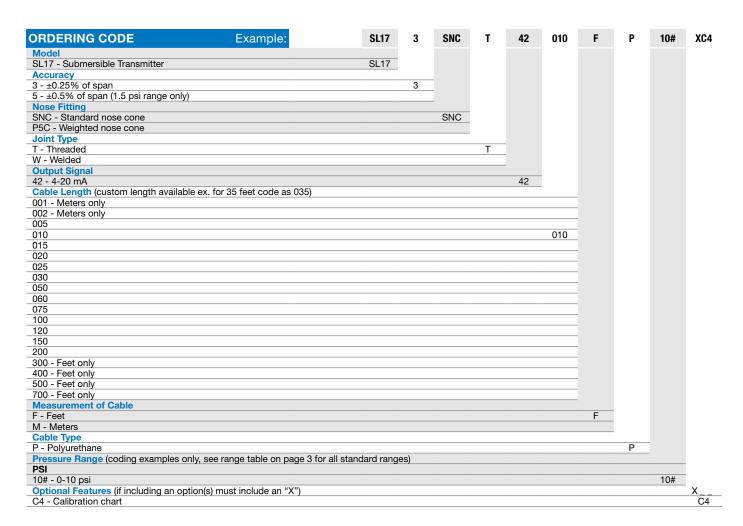
ELECTRICAL SPECIFICATIONS					
Output Signal:	4-20 mA (2 wire)				
Supply Voltage:	10-36 Vdc				
Insulation Resistance:	50 Vdc (100M Ω)				
CE Compliance:	 EMI Class A/EMS Table 2 EN61326-1:2006 Annex BB (Pressure Transducer)				
Withstand Voltage:	350 Vdc				



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PHYSICAL SPECIFICATIONS				
Weight:	Sensor (120g)			
Nose Cones:	standard (13g), weighted (225g)			
Labels:	Laser-etched with customer part number			
Pressure Connection:	M14 x 1.5			
Vent Tube:	0.060" ID polyethylene, Semi-rigid PVC with shield and Kevlar strength member			
Cable Internal Construction:	4-wire 22 AWG conductors (red, black, green, white)			
Cable Pull Strength:	180 lb			
Cable Voltage Rating:	300 V			
Load Limitation:	4-20mA Output Only			

WETTED COMPONENTS			
Enclosure		Cable External Jacket	
316L stainless ste	el	Coated black polyurethane	
OPTIONAL FEATURES			
Calibration Chart:	NIST traceable (9-point)		
Consult factory for:	Custom cable lengths		



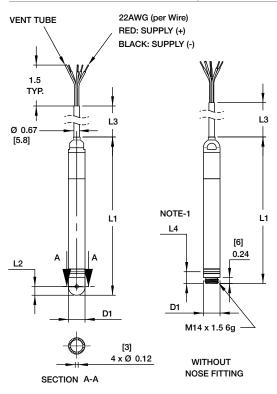


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DIMENSIONS in [] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

NOSE FITTING	D1	L1	L2	L3	L4
Without Nose Cone	0.67 [17]	5.90 [150]	NA		0.47 [12]
Standard Nose Cone (SNC)	0.67 [17]	6.37 [162]	0.35 [9]	Per Order	0.94 [24]
0.5 LBS Nose Cone (P5C)	0.67 [17]	10.98 [126]	4.96 [126]		5.55 [141]



RANGE TABLE				
PSI	Ft H ₂ 0	Mt H₂0	BAR	
1P5# - 0-1.5 psi	10FW - 10 ft. H ₂ 0	5LW - 5m H ₂ O	0.6BR - 0.6 Bar	
5# - 0-5 psi	20FW - 20 ft. H ₂ 0	10LW - 10m H ₂ 0	1BR - 1 Bar	
10# - 0-10 psi	30FW - 30 ft. H ₂ 0	15LW - 15m H₂O	1.6BR - 1.6 Bar	
15# - 0-15 psi	50FW - 50 ft. H ₂ 0	20LW - 20m H ₂ 0	2.5BR - 2.5 Bar	
30# - 0-30 psi	100FW - 100 ft. H ₂ 0	30LW - 30m H ₂ 0	4BR - 4 Bar	
60# - 0-60 psi	150FW - 150 ft. H ₂ 0	50LW - 50m H ₂ 0	6BR - 6 Bar	
100# - 0-100 psi	200FW - 200 ft. H ₂ 0	75LW - 75m H ₂ 0	10BR - 10 Bar	
160# - 0-160 psi	300FW - 300 ft. H ₂ 0	100LW - 100m H ₂ 0		
200# - 0-200 psi	400FW - 400 ft. H ₂ 0	125LW - 125m H₂0		
300# - 0-300 psi	500FW - 500 ft. H ₂ 0	150LW - 150m H₂0		