# **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 H<sub>2</sub>O, 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

PERFORMANCE SPECIFICATIONS							
Reference Temperature:	70 °F (21 °C)						
Engineer Units:	psi, bar, ft/m $\ensuremath{\text{H}_20}$ and customer defined						
Ranges:	1.5 to 300 psi & equivalent (see table), gauge pressure only (Based on cable vented to clean dry, non-corrosive atmosphere or proper use of termination desiccant box)						
Accuracy:	$\pm 0.25\%$ of span, terminal point (>5 psi); $\pm 0.5\%$ of span, terminal point (<5 psi); Includes effects of linearity, hysteresis and repeatability						
Stability:	$\pm 0.25\%$ of span						
ENVIRONMENTAL SE	PECIFICATION	IS					
Temperature Limits: 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 (–10 °C to 40 °C):	$\pm$ 1% TEB (>5 psi) $\pm$ 1.5% of span, terminal point (<5 psi)						
Humidity:	0-100% RH (*Based on cable vented to clean, dry, non-corrosive atmosphere or proper use of termination desiccant box)						
Enclosure Ratings:	NEMA 6P, IP68						
FUNCTIONAL SPECIFICATIONS							
Overpressure (FS): 1.5 to ≤5 psi 10 psi 15 to ≤30 psi 75 psi 150 psi	Proof: 3 X Range 3 X Range 2 X Range 1.8 X Range 2 X Range	Burst: 5 X Range 7.5 X Range 5 X Range 4.7 X Range 4 X Range					



### **KEY BENEFITS**

• Provides a highly reliable platform for accurate control and monitoring of level and pressure

**SL17** 

- Rugged construction
- Units of measure and cable lengths are customized for individual specifications
- Excellent long-term stability

ELECTRICAL SPECIFICATIONS					
Output Signal:	4-20 mA (2 wire)				
Supply Voltage:	10-36 Vdc				
Insulation Resistance:	50 Vdc (100MΩ)				
CE Compliance:	<ul> <li>EMI Class A/EMS Table 2 EN61326-1:2006</li> <li>Annex BB (Pressure Transducer) EN61326-2-3:2007</li> <li>ESD EN61000-4-2</li> <li>Burst EN61000-4-4</li> <li>Surge EN61000-4-5</li> </ul>				
Withstand Voltage:	350 Vdc				



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2 X Range

3 X Range

2:1 from original sensor pressure range

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

300 psi

Maximum Turndown:

Vibration & Shock:

# **SL17 Submersible Pressure Transmitter**



PHYSICAL SPECIFIC	ATIONS
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 steel		Coated black polyurethane				
OPTIONAL FEATURES						
Calibration Chart:	Traceable calibration certificate (9-point)					
Consult factory for:	Custom cable lengths					

ORDERING CODE	Example:	SL17	3	SNC	т	42	010	F	Р	10#	XC4
Model											
SL17 - Submersible Transmitter		SL17									
Accuracy		0217									
3 - ±0.25% of span			3	-							
$5 - \pm 0.5\%$ of span (1.5 psi range only)				-							
Nose Fitting				-							
SNC - Standard nose cone				SNC							
P5C - Weighted nose cone				0110							
Joint Type											
T - Threaded					т	-					
W - Welded						-					
Output Signal						-					
42 - 4-20 mA						42	-				
Cable Length (custom length available ex	for 25 foot ondo on 025)					42					
001 - Meters only	. 101 35 Teet Code as 035)										
001 - Meters only 002 - Meters only											
002 - Meters only 005											
							010				
010							010				
015											
020											
025											
030											
050											
060											
075											
100											
120											
150											
200											
300 - Feet only											
400 - Feet only											
500 - Feet only											
700 - Feet only											
Measurement of Cable											
F - Feet								F			
M - Meters											
Cable Type											
P - Polyurethane									Р		
Pressure Range (coding examples only, s	ee range table on page 3 for a	all standard rang	les)								
PSI											
10# - 0-10 psi										10#	
Optional Features (if including an option(s	s) must include an "X")										Χ
C4 - Traceable calibration certificate	,										C4

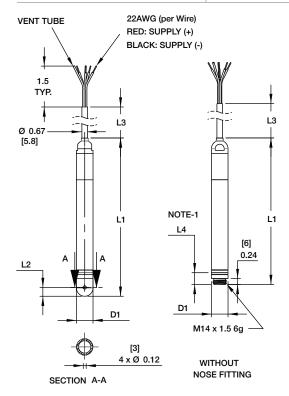
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# **SL17 Submersible Pressure Transmitter**

## 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 <sub>2</sub> 0	Mt H <sub>2</sub> 0	BAR				
1P5# - 0-1.5 psi	10FW - 10 ft. H <sub>2</sub> 0	5LW - 5m H <sub>2</sub> 0	0.6BR - 0.6 Bar				
5# - 0-5 psi	20FW - 20 ft. H <sub>2</sub> 0	10LW - 10m H <sub>2</sub> 0	1BR - 1 Bar				
10# - 0-10 psi	30FW - 30 ft. H <sub>2</sub> 0	15LW - 15m H <sub>2</sub> O	1.6BR - 1.6 Bar				
15# - 0-15 psi	50FW - 50 ft. H <sub>2</sub> 0	20LW - 20m H <sub>2</sub> 0	2.5BR - 2.5 Bar				
30# - 0-30 psi	100FW - 100 ft. H <sub>2</sub> 0	30LW - 30m H <sub>2</sub> 0	4BR - 4 Bar				
60# - 0-60 psi	150FW - 150 ft. H <sub>2</sub> 0	50LW - 50m $H_2O$	6BR - 6 Bar				
100# - 0-100 psi	200FW - 200 ft. H <sub>2</sub> 0	75LW - 75m H <sub>2</sub> 0	10BR - 10 Bar				
160# - 0-160 psi	300FW - 300 ft. H <sub>2</sub> 0	100LW - 100m H <sub>2</sub> 0					
200# - 0-200 psi	400FW - 400 ft. H <sub>2</sub> 0	125LW - 125m H₂0					
300# - 0-300 psi	500FW - 500 ft. $\mathrm{H_{2}O}$	$150LW - 150m H_2O$					

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