

LiquiLevel SLT-S

Submersible Level Transmitter for
Slurry and Sewage

Datasheet

The submersible Level Transmitter is designed for difficult level sensing applications where sludge, slurry, or turbulence may be present. The transmitter provide continuous liquid level measurement by sensing the hydrostatic pressure produced by the height of liquid above the sensor and providing a 4-20 mA output signal compatible with PLC, panel meter, data logger, and other electronic equipment. The transmitter consists of a sensing element, encased in a 316 SS housing with cage and large diameter 316 SS diaphragm seal. The sensor prevents moisture intrusion, and performance well even when the assembly is buried in a layer of sludge or slurry.

Application

- Wastewater
- Wet Wells
- Oil tanks
- Sumps
- Reservoirs
- Sludge, slurry or turbulence
- Chemical storage tanks
- Lift station monitoring
- Liquid level in vented tank
- Landfill leachate monitoring
- Dewatering
- Pump control

Features

- Non-clogging and damage resistant to floating solids
- Durable 316 SS construction for reliable, long life in harsh environments
- 1/2 inch threaded connection, allows the unit to be installed in a pipe/conduit
- Diaphragm is protected from physical damage and turbulence
- Added weight helps hold transmitter in place
- Excellent chemical compatibility for wide application use



LiquiLevel SLT-S

Submersible Level Transmitter for
Slurry and Sewage

Parameters

Relative pressure									
bar	0...0.25	0...0.4	0...0.6	0...1	0...1.6	0...2.5	0...4	0...6	0...10
mH2O	0...2.5	0...4	0...6	0...10	0...16	0...25	0...40	0...60	0...100
psi	0...3.6	0...5.8	0...7.8	0...14.5	0...23.2	0...36.2	0...58	0...87	0...145

Medium	Compatible liquids
Measure range	0 m - 0.5 m-100 metres
Overload pressure	≤200%FS
Pressure type	G (Gauge pressure) , A (Absolute pressure)
Accuracy	0.2% , 0.25% , 0.5%
Stability	±0.1%FS/Year, ±0.2%FS/Year
Zero temperature drift	±0.02%FS/°C, ±0.03%FS/°C
Sensitivity drift	±0.02%FS/°C, ±0.03%FS/°C
Temp compensation	0°C-50°C, -10°C-65°C
Medium temperature	-30°C-65°C
Power supply	12VDC-30VDC
Signal output	4mA-20mA,0V-5V(Customized)
Load Resistance	Current type: ≤ (U-12) /0.02(Ω)
Ingress protection	IP68
Wetted Materials	Body: 304 SS, 316L SS; Cable: PE, PU, PTFE
Tensile strength of the cable	<30kg
Diameter of diaphragm	19mm

Electrical connection

Cable lengths													
Meter (m)	1.5	3	5	10	15	20	25	30	40	50	60	80	100
Feet (ft)	5	10	20	30	40	50							

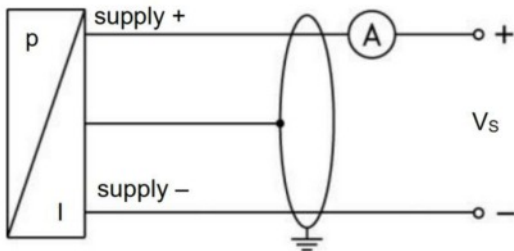
Other cable lengths on request

LiquiLevel SLT-S

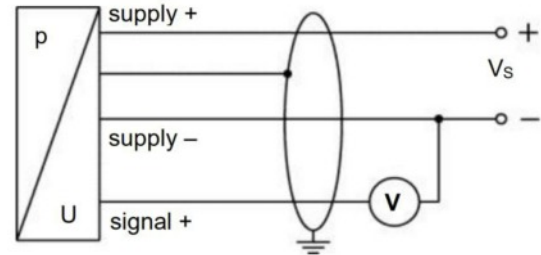
Submersible Level Transmitter for Slurry and Sewage

Wiring diagrams

2-wire-system (current)



3-wire-system (voltage)



Current

Red: 24V +
Green: Current +
Black: GND

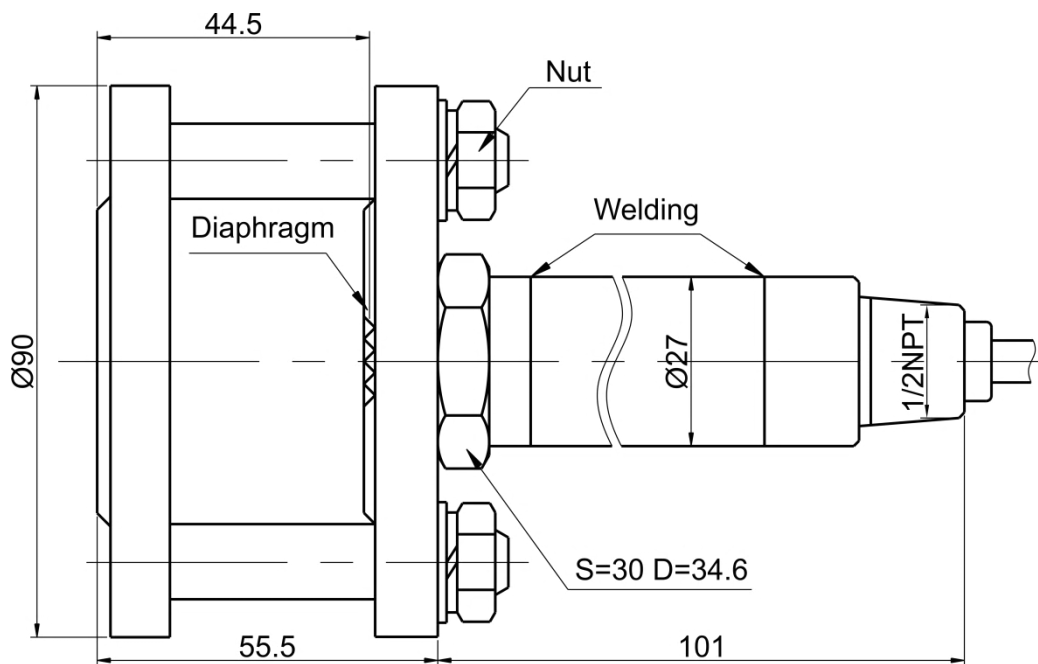
Voltage

Red: 24V +
Green: 24V -
Yellow: Voltage +
Black: GND

RS485

Red: 24V +
Green: 24V -
Yellow: 485A
Blue: 485B
Black: GND

Dimensions



LiquiLevel SLT-S

Submersible Level Transmitter for Slurry and Sewage

Ordering code

Use the character from the chart below to construct a product code.

Range selection table

0	0...2.5	1	0...4	2	0...6	3	0...10	4	0...16
5	0...25	6	0...40	7	0...60	8	0...100	X	Customized

LiquiLevel SLT-S—1—J3—O0—V1—L2—C1							Description
SLT-S	-	-	-	-	-	-	
Range	R(XX - XX)						0~0.5m...100m
Accuracy	J1						0.2%
	J2						0.25%
	J3						0.5%
Output	O0						4-20mA output
	O1						0V-5V output
	O2						RS485 output
	O3						Customized
Power supply	V1						24VDC(Standard)
	V2						12VDC-30VDC
Cable length	CS3						3m (Standard)
	CSXX						XXm
Cable material	C1						PE
	C2						PU
	C3						PTFE

Accessories

Panel meter

