

Techtrol Submersible Level Transmitter - SLT

SLT is an accurate & reliable transmitter for continuous level measurement of clean, non-aggressive liquids, water in borewells, reservoirs, sumps & dams under atmospheric conditions.

Salient Features :

- High precision & stability
- Compact, rugged & corrosion resistant
- Cost effective with minimal maintenance.
- Easy to install, transport & handle
- Level range upto 100mtrs water column.
- Installation in tanks/wells with small bore diameter.
- Probe with Ingress Protection IP68
- Continuous analog o/p of 4-20 mA, 2 wire

Construction & Operation :

It consists of a piezo resistive pressure sensor and evaluation electronics, integrated in a probe with IP68 protection. It is provided with a specially designed cable containing conducting wires and a vent tube for atmospheric pressure compensation. Hydrostatic pressure of liquid column is sensed by the sensor and converted into linear current o/p of 4-20mA. The output can be further configured with PLC/DCS, Techtrol Loop Powered Indicator (TLPI), Techtrol Indicator Controller (TLIC/TUIC). The transmitter is factory calibrated to the measuring range of water column (Sp. gr. =1) and supplied with or without enclosure. The transmitter without enclosure is provided with 1 mtr additional cable length.

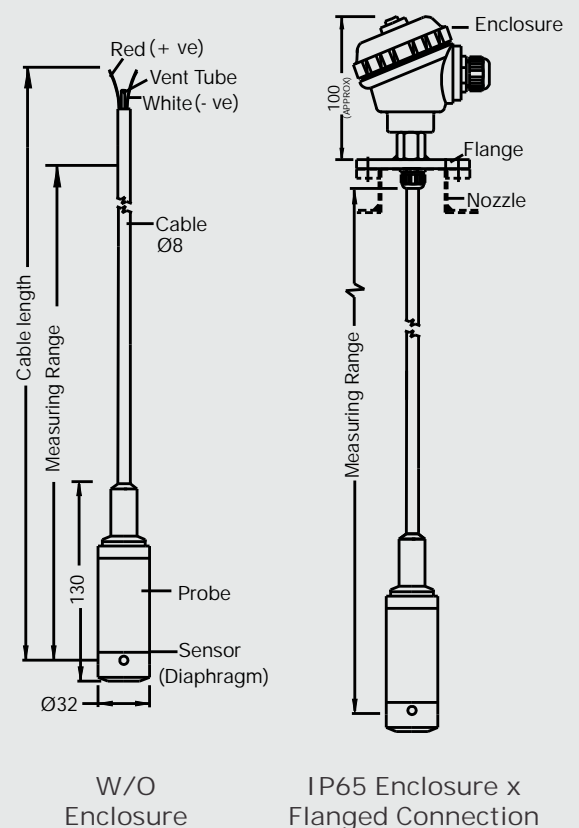
Specifications :

Measuring Ranges	: 3, 5, 8, 10, 15, 20, 25, 30, 50, 100 mtrs WC
Over Range	: 2 x Measuring Range
Supply Voltage	: 12 -28 VDC
Output	: 4 - 20mA, 2 wire
Accuracy	: 0.5 % FS
Load	: < 500 Ohms
Probe MOC	: SS304 or SS316
Probe Protection	: IP68
Diaphragm MOC	: SS316L
Cable MOC	: PE insulated multistrand Cu wires + PP vent tube with an overall sheath of PU
Process Conn. MOC	: SS304 or SS316
Process Connection	: 1-1/2"NB ANSI 150 # Flange or 1-1/2" BSP(M) Screwed
Enclosure	: Cast Al, IP66 x PG9
Junction Box	: ABS IP65 (80 x 82 x 55)
Max. Temperature	: 70 °C
Cable Size & Colour	: Ø8, Black
Wire Colour Code	: Red (+ve), White (-ve)
Accessories	
Ballast with Rope	: SS304
Guide Pipe	: 1"NB



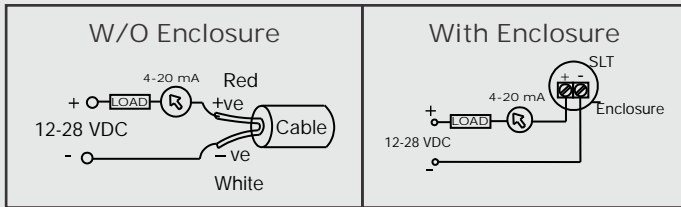
Schematic Diagram :

Fig. 1



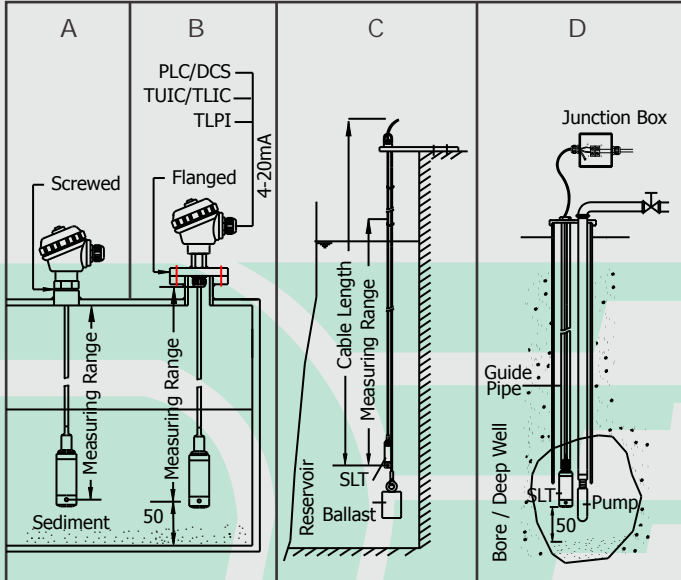
Termination :

Fig. 2



Installation :

Fig. 3



- Transmitter should be installed inside the tank, such that the probe is at least 50mm above the tank bottom or sediment level as the case may be. This is to ensure that vent hole on the probe cap does not get clogged and prevent settling of sediment on pressure diaphragm.
- In case of transmitter w/o process connection, it should be clamped through a cable gland to secure the installation.
- SLT alongwith ballast should be installed in large reservoirs, which normally have turbulence. (Fig 3C)
- SLT should be mouned in guide pipe in borewells/ deep wells (Fig 3D)
- The upper open end of cable should be vented to atmosphere. To prevent moisture from entering the cable vent, its upper end should be terminated in a weatherproof junction box (Fig 3D)
- During handling & installation, no physical damage should be caused to the cable & its inner vent tube.
- The cable should be wound (if reqd) in 200mm dia circle, such that no damage is caused to vent tube.
- The sensor diaphragm is the most crucial & sensitive component which needs careful handling during installation and should not be damaged in anyway

Ordering Information :

Model No, Liquid & its Density, Optg.Temp & Pressure, Measuring Range and Cable Length (config. B & W)

Applications :

- Level Monitoring in Tanks, Sumps, Reservoirs & Dam
- Ground Water Level Measurement (Borewells / Deepwells)
- Water Treatment Plants
- Diesel Storage Tanks
- Marine Ships (Fresh Water, Oil Tanks)
- Tank Gauging System

Model Identification :

Configuration

With Integral Enclosure

With Separate Junction Box

W/o Enclosure/Junction Box

Others

Probe MOC

SS304

SS316

Others

Process Conn. MOC

Not Applicable (Config B & W)

SS304

SS316

Others

Process Conn. Type

Without (Config B & W)

1 1/2" NB ANSI 150 # Flanged (Config.J)

1 1/2" BSP (M) Screwed (Config.J)

Others

Indicator Controller (Refer Catalogues)

Without

TLPI

TLIC

TUIC

Others

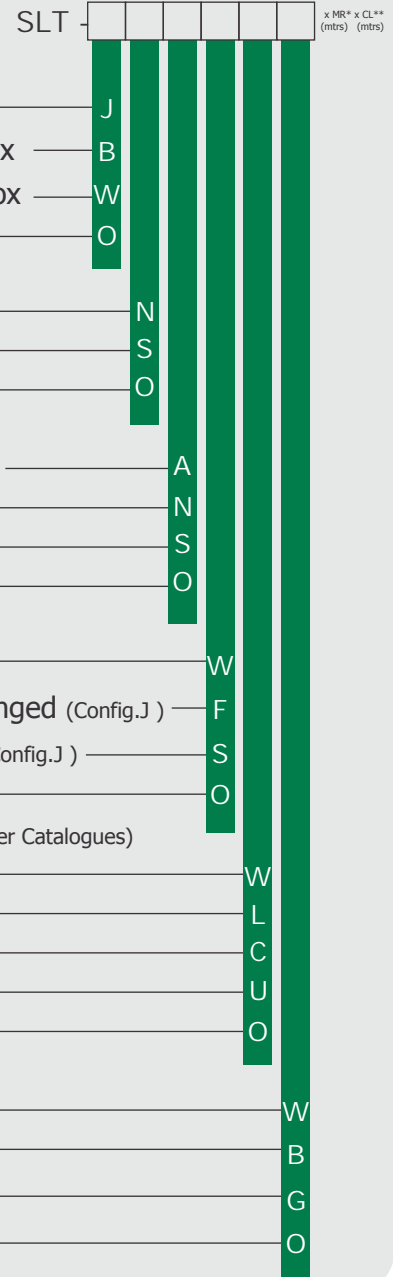
Accessories

Without

Ballast with Rope

Guide Pipe

Others



Config. B & W :

1. Cable Length = MR + 1 mtr by default
2. Extra Cable Length provided at extra cost

* MR= Measuring range, ** CL = Cable Length

Pune Techtrol Pvt Ltd

[CIN : U31909PN1991PTC063403]

S-18, MIDC, Bhosari, Pune - 411026. India

+91-20-66342900 ho@punetechtrol.com www.punetechtrol.com

Works : J-52/7, MIDC, Bhosari, Pune - 411026. India +91-20-67313600

Custom built specs./options available on demand.

We reserve the right to modify design and specifications without prior notice.



R A T E D
NSIC-CRISIL SE1A

CAT/0080/REV 03/01-16