

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

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 o/p, 2 wire

Construction & Operation : (fig 1)

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 (TLIP), Techtrol Indicating 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 500mm 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, IP65 x PG9
Max. Temperature	: 70 °C
Cable Size & Colour	: Ø8, Black
Wire Colour Code	: Red (+ve), White (-ve)

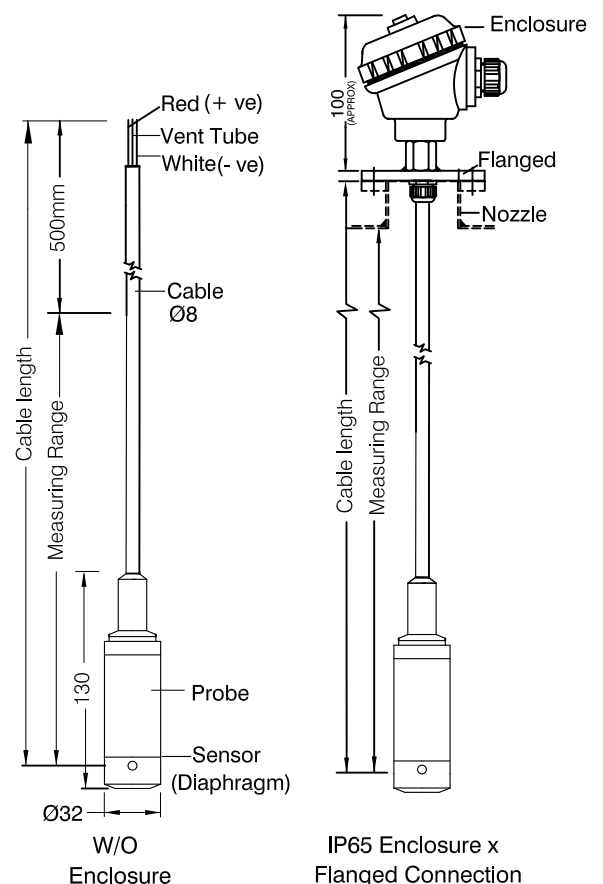
Accessories

Junction Box	: ABS WP (82 X85 x55)
Ballast with rope	: SS304 x Ø 3 wire rope



Schematic Diagram :

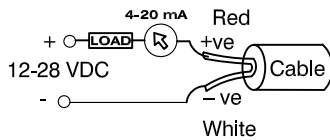
Fig 1



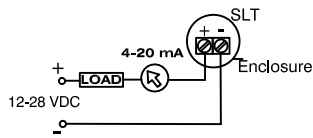
Termination :

Fig 2

W/O Enclosure



With Enclosure

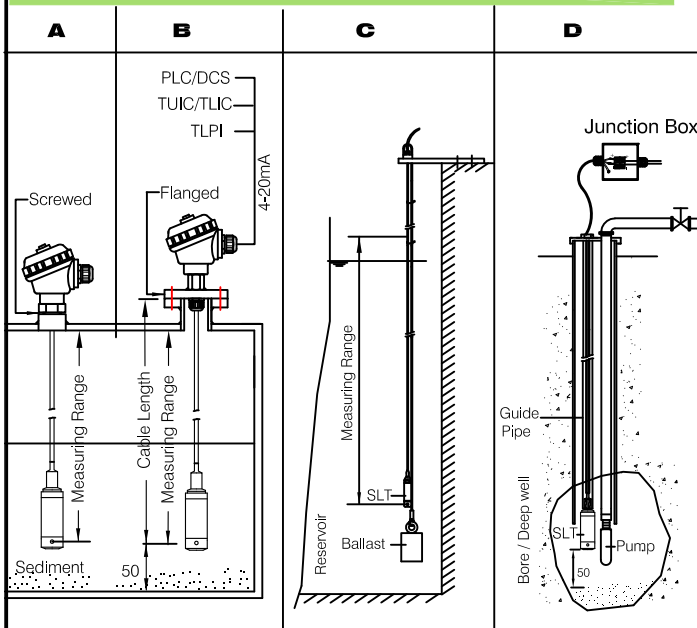


Applications :

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

Installation :

Fig 3



Model Identification No :

Enclosure x Cable Gland

- Without _____ W
- Cast Al, IP66 x PG9 _____ J
- Others _____ O

Probe MOC

- SS304 _____ N
- SS316 _____ S
- Others _____ O

Process Conn. MOC

- SS304 _____ N
- SS316 _____ S
- Others _____ O

Process Conn. Type

- Without _____ W
- 1 1/2" NB ANSI 150 # Flanged _____ F
- 1 1/2" BSP (M) Screwed _____ S
- Others _____ O

*** Level Indicator Controller**

- Without _____ W
- TLPI _____ L
- TLIC _____ I
- TUIC _____ U
- Others _____ O

Accessories

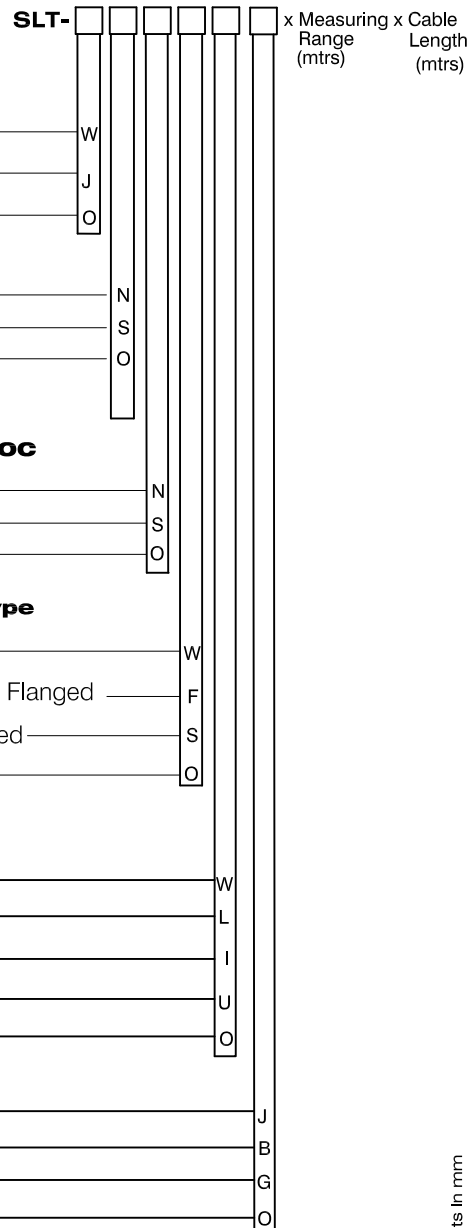
- Junction Box _____ J
- Ballast with rope _____ B
- Guide Pipe _____ G
- Others _____ O

* TUIC / TLIC / TLPI - refer respective catalogues

Ordering Information :

Model No alongwith Liquid, its Density, Operating Temperature & Pressure x Measuring Range x Cable Length.

- 1) 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 settling of sediment on pressure diaphragm.
- 2) In case of transmitter w/o process connection, it should be clamped through a cable gland to secure the installation.
- 3) 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)
- 4) SLT alongwith ballast should be installed in large reservoirs, which normally have turbulence. (Fig 3C)
- 5) SLT should be mouned in guide pipe in borewells/ deep wells,
- 6) During handling & installation, no physical damage should be caused to the cable & its inner vent tube.
- 7) The cable should be wound (if reqd) in 200mm dia circle, such that no damage is caused to vent tube.
- 8) The sensor diaphragm is the most crucial & sensitive component which needs careful handling during installation and should not be damaged in anyway .



Units In mm

PUNE TECHTROL PVT LTD

'S' 18, MIDC Bhosari Pune: 411026 India
 ☎ +91-20-66342900, 67313600 ✉ ho@punetechtrol.com
 📠 +91-20-66342998 🌐 www.punetechtrol.com



R A T E D
 NSIC-CRISIL SE-1A