

Screwed with  
Plug in Connector



Flanged with  
Plug in Connector



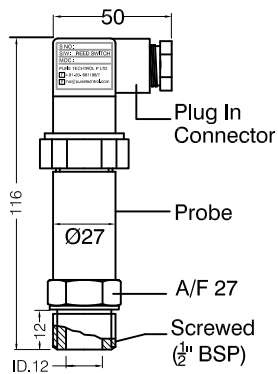
Screwed with  
Cable Extension



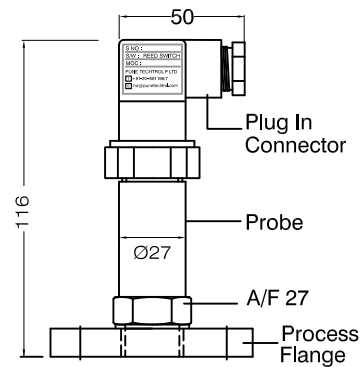
Flanged with  
Cable Extension



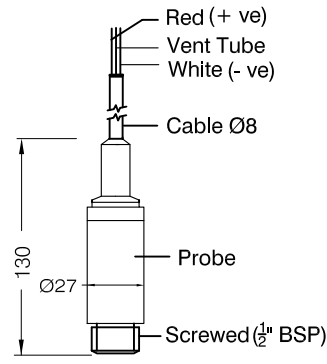
**Fig 1**



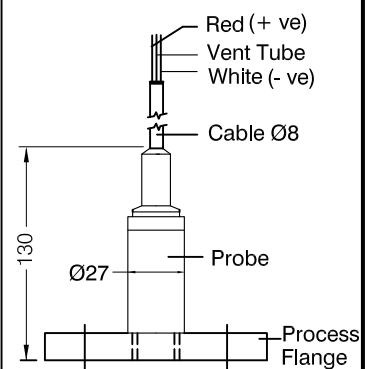
**Fig 2**



**Fig 3**



**Fig 4**



HLT is an accurate & reliable transmitter for continuous level measurement of clean, non-aggressive liquids in tanks under atmospheric conditions.

## Salient Features :

- \* High precision & stability
- \* Compact, rugged & corrosion resistant
- \* Cost effective with minimal maintenance.
- \* Easy to install, handle & transport
- \* Continuous analog o/p of 4-20 mA o/p, 2 wire

## Construction & Operation :

It consists of a piezo resistive pressure sensor and evaluation electronics integrated in a probe. 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 Indicating Controller (TLIC/TUIC). The transmitter is factory calibrated to the measuring range of water column (Sp.gr =1) and supplied with or without plug in connector. HLT without connector is supplied with 2mtrs of cable extension.

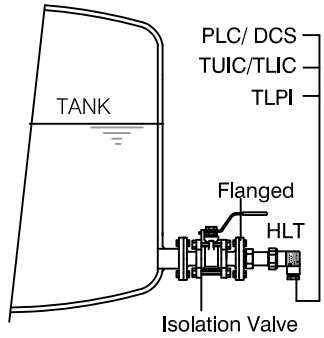
## Installation :

- 1) Transmitter should be installed on the side of the tank such that it is at least 50mm above the tank bottom or sediment level as the case may be. This is to prevent settling of sediment on pressure diaphragm.
- 2) In case of transmitter with cable extension, 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 6)
- 3) The sensor diaphragm is the most crucial & sensitive component which needs careful handling during installation and should not be damaged in anyway.
- 4) During handling & installation of HLT with extension cable, 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.

## Installation :

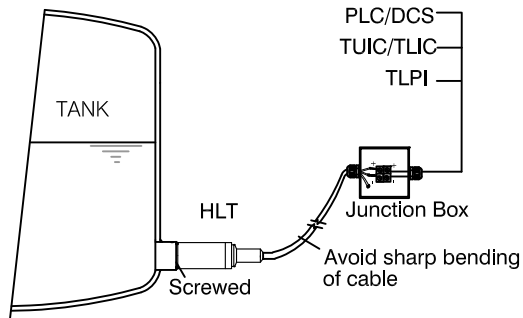
Flanged HLT with Isolation Valve x Plug Connector-

**Fig 5**



Screwed HLT with Cable Extension -

**Fig 6**



## Specifications :

Measuring Ranges : 0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5 mtr 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

Diaphragm MOC : SS316L

Process Conn. MOC : SS304 or SS316

Process Connection : 1/2" BSP Screwed,  
1 1/2" NB ANSI 150# Flange

Termination : Cable or Plug In Connector

Protection : IP65

Cable : PU, Black, Ø8

Max. Temperature : 70 °C

### Accessories -

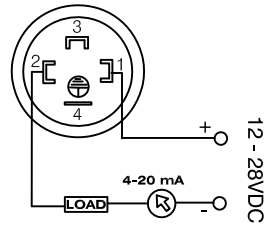
Isolation Valve : 1 1/2" NB ANSI 150# Flanged Ball Valve  
Corresponding to Probe MOC

Junction Box : ABS WP (80 X82 x55)

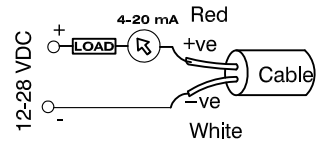
## Termination :

**Fig 7**

Plug In Connector



Cable Extension



## Applications :

- \* Level Monitoring in Tanks
- \* Water Treatment Plants
- \* Diesel Storage Tanks
- \* Marines ( Fresh Potable Water, Lub Oil tanks )
- \* Tank Gauging System

## Model Identification No :

HLT- \_\_\_\_\_ x Range (mtrs)

### Termination

Without (2 mtrs extn cable) — W

Plug in Connector — P

Others — O

### Probe MOC

SS304 \_\_\_\_\_ N

SS316 \_\_\_\_\_ S

Others \_\_\_\_\_ O

### Process Conn. MOC

SS304 \_\_\_\_\_ N

SS316 \_\_\_\_\_ S

Others \_\_\_\_\_ O

### Process Connection Type

Without \_\_\_\_\_ W

1 1/2" NB ANSI 150 # Flanged \_\_\_\_\_ F

M20 (M) Screwed \_\_\_\_\_ S

Others \_\_\_\_\_ O

### \* Level Indicator Controller

Without \_\_\_\_\_ W

TLPI \_\_\_\_\_ L

TLIC \_\_\_\_\_ I

TUIC \_\_\_\_\_ U

Others \_\_\_\_\_ O

### Accessories

Isolation Valve \_\_\_\_\_ I

Junction Box \_\_\_\_\_ J

Others \_\_\_\_\_ O

\* TUIC / TLIC / TLPI - refer respective catalogues

## Ordering Information :

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

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



RATED  
NSIC-CRISIL SE-1A