

Techtrol Hydrostatic Level Transmitter - HLT

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

Salient Features :

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

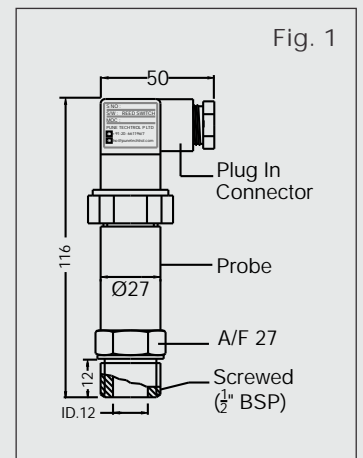
Construction & Operation :

It consists of a piezo resistive pressure sensor and evaluation electronics, integrated in a probe. 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 plug in connector. HLT without connector is supplied with 1mtr of cable extension.

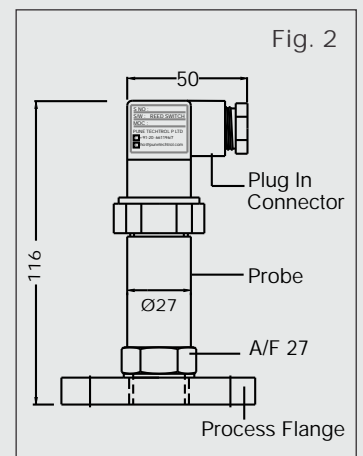
Specifications :

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
Probe Protection	: IP65
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
Junction Box	: ABS IP65 (80L x 82W x 55D)
Cable	: PU, Black, Ø8
Max. Temperature	: 70 °C
Cable Size & Colour	: Ø8, Black
Accessories	
Isolation Valve	: 1 1/2 "NB ANSI 150# Flanged Ball Valve Corresponding to Probe MOC

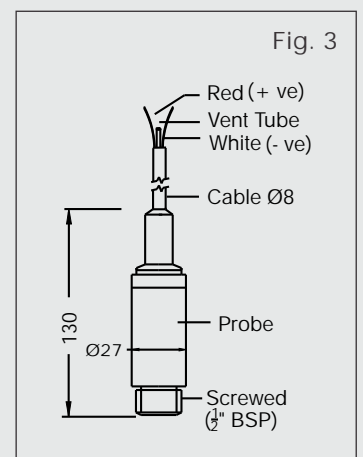
Screwed with Plug in Connector



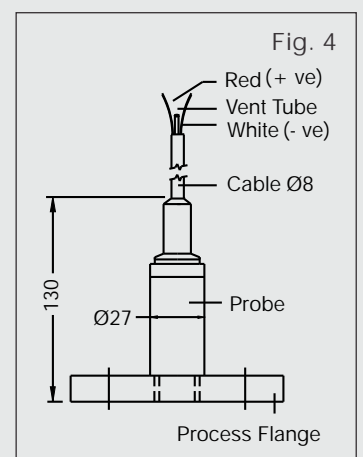
Flanged with Plug in Connector



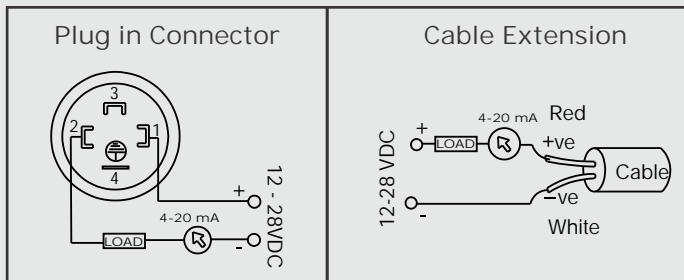
Screwed with Cable Extension



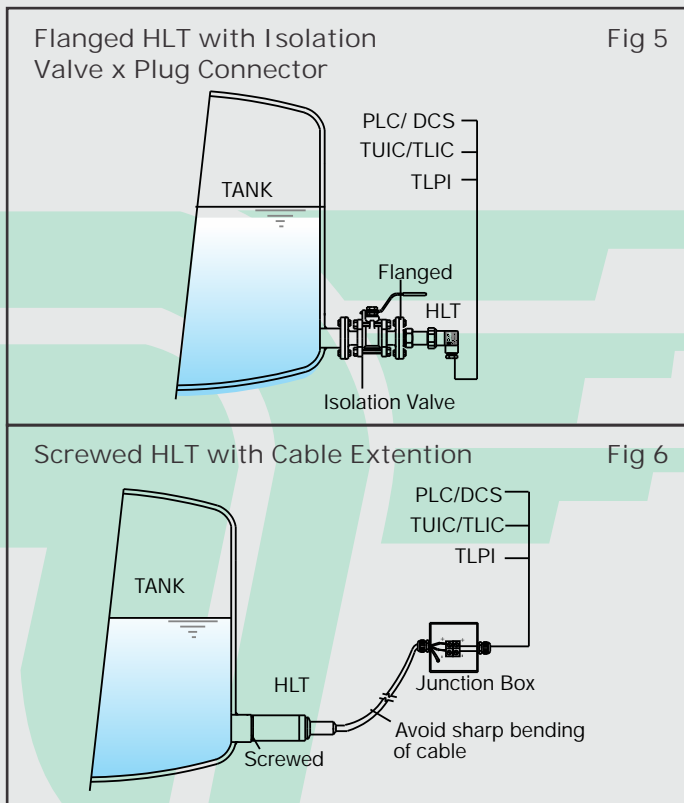
Flanged with Cable Extension



Termination :



Installation :



- 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.
- 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)
- The sensor diaphragm is the most crucial & sensitive component which needs careful handling during installation and should not be damaged in anyway.
- 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.

Application :

Level Monitoring in Tanks, Water Treatment Plants, Diesel Storage Tanks, Marine (Fresh Water, Oil Tanks), Tank Gauging System

Model Identification :

Configuration

With Plug in Connector

With Cable Extension

W/o Cable Extn + Junction Box

Others

Probe MOC

SS304

SS316

Others

Process Conn. MOC

SS304

SS316

Others

Process Conn. Type

1 1/2" NB ANSI 150 # Flanged

1 1/2" BSP (M) Screwed

Others

Indicator Controller (Refer Catalogues)

Without

TLPI

TLIC

TUIC

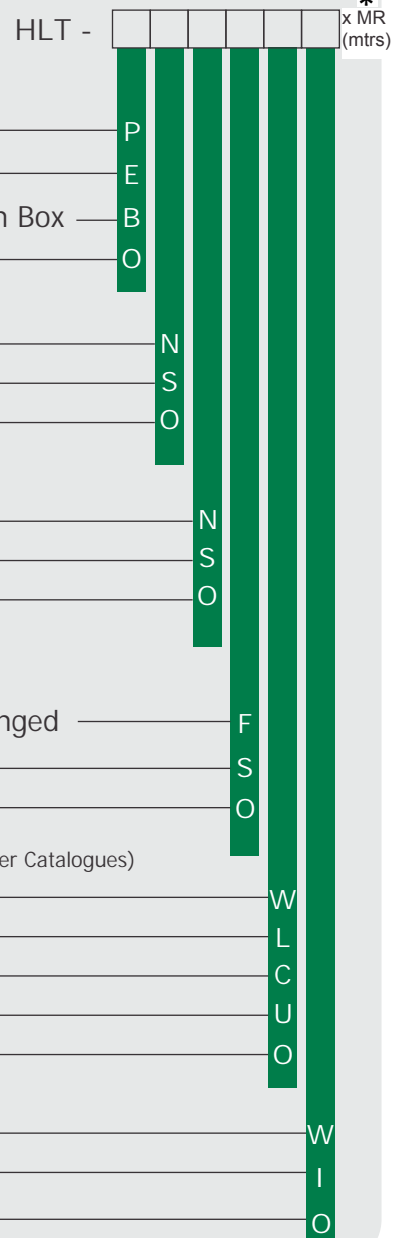
Others

Accessories

Without

Isolation Valve

Others



Config. E & B :-

1. Cable Extension = 1 mtr by default

2. Extra Cable Extension provided at extra cost

* MR = Measuring Range

Ordering Information :

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

All dimensions in mm except specified