

HYDROSTATIC LEVEL TRANSMITTER

HYDROSTATIC L-T SERIES



FLOWTECH

CE

Product Description

The Flowtech “ HLT Series ” is an accurate & reliable transmitter for continuous Level Measurement of water & Clean, non-agressive liquids.

Hydrostatic Level Transmitter is used in various level measuring applications in industry segments like petroleum, chemical engineering, metallurgy, electric power, pharmacy, water supply and environmental sectors.

It has display on site and can transmit to standard signal like 4-20mA, RS485 and HART Protocol.

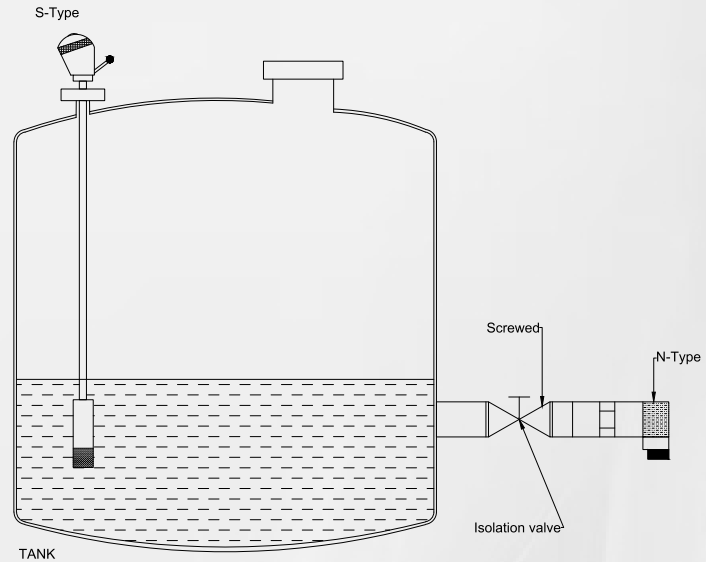
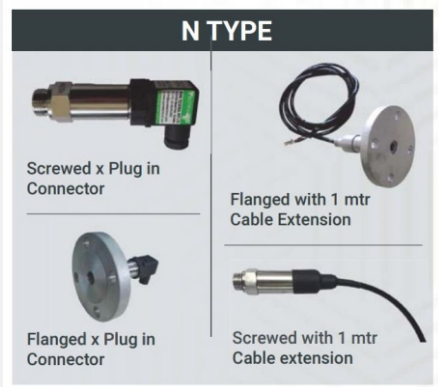


Main Features:

- **Optional Span**
- **Digital display of Liquid Level**
- **Zero and Span adjustment easily**
- **Reverse polarity protection and current – limiting protection**
- **Thunder-proof, shock resistant and intrinsic safe**
- **Small volume, nice appearance and cost-effective**
- **High accuracy, high stability, high reliability**
- **Easy to install, transport & handle**
- **Level range upto 200 meters liquid column**
- **Probe with Ingress Protection IP68**

Construction & Operation

It consists of a piezo resistive pressure sensor and evaluation electronics integrated in a probe. The hydrostatic pressure of liquid column is sensed by the sensor and converted into linear current o/p of 4-20mA, scaled with formula $P = \rho \times H$, Where P= Pressure, ρ = SG of liquid, H= liquid column. The output can be further configured with PLC/DCS or display instrument.



Available in submerged (S type) and non-submerged (N type)

1. S type is top mounted on tank and probe is submerged in liquid. It is provided with a specially designed cable fitted with vent tube for atmospheric compensation.

2. N type is side mounted to tank.

Technical Specifications

| Type | 'S' type (Submersible) | 'N' type (Non Submersible) |
|--------------------------------------|---|--|
| Measuring Ranges | 0.5...200mts water (SG=1) | |
| Over Pressure Range | +/-2x Measuring Range | |
| Supply Voltage | 12 - 28 VDC | |
| Output | 4 - 20mA, 2 wire | |
| Accuracy | 0.5% FS | |
| Load | < 500 Ohms | |
| Probe MOC | SS 316 | |
| Probe Protection | IP68 | IP65 |
| Diaphragm MOC | SS304 or SS316 | |
| Process Connection | 1-1/2" BSP(M) Screwed | 1/2" BSP(M) Screwed (SS316) |
| | 1-1/2" NB ANSI 150 # Flange | |
| Termination x Cable Extention | Open Ended Cable(Length=MR+1mtr) Enclosure IP 65 (Length+MR) | Open Ended Cable(Length+1mtr) Plug In Connector |
| Additional Cable Ecxtention | Provided on Request | |
| Cable Type | PE Insulated Copper Wire with PUR jacket (Oil Resistant) | |
| Max Temperature | 70° C | |
| Accessories | | |
| 1. Junction Box | ABS IP65 (80 x 82 x 55 H mm) x PG 11 Cable Gland (2 Nos) | |
| 2. Ballast with Rope | Ss316 MOC x 1.6 D Wire Rope | NA |
| 3. Guide Pipe | 1" GI | NA |
| 4. Isolation Valve | NA | 1--/2"NB ANSI 150# Flanged Ball Valve x CS |

Applications



Product Ordering Information

Order Code for Hydrostatic Level Transmitter Decodification

| Installation Type | Description | Code |
|-------------------|-----------------|------|
| | Submersible | N |
| | Non-Submersible | S |

| Communication Output | Description | Code |
|----------------------|-----------------|------|
| | 4-20mA (2 wire) | 1 |
| | RS 485 | 2 |
| | HART V7.6 | 3 |

| Connection Type | Description | Code |
|-----------------|-----------------------------|------|
| | Submersible Type | |
| | W/O Enclosure | S1 |
| | With IP65 Enclosure | S2 |
| | Non-Submersible Type | |
| | Screwed + Plug in Connector | N1 |
| | Screwed + 1 Mtr cable | S2 |
| | Flanged + Plug-in Connector | N3 |
| | Flanged + 1 Mtr cable | N4 |

| Cable Entry | Description | Code |
|-------------|-------------|------|
| | M20 | M |
| | 1/2 NPT | N |

| Terminal Type | Description | Code |
|---------------|------------------------|------|
| | With Integral Display | T1 |
| | Without Terminal | T2 |
| | With RTD Head & Flange | T3 |

| Connection MOC | Description | Code |
|----------------|----------------|------|
| | Not Applicable | NA |
| | SS 304 | 1 |
| | SS 316 | 2 |
| | Others | OT |

| Display Type | Description | Code |
|--------------|------------------|------|
| | Without Display | W |
| | Integral Display | I |
| | Remote Display | RE |

| Enclosure MOC | Description | Code |
|---------------|----------------------------------|------|
| | Al. Die Cast Weatherproof | WP |
| | Flameproof (Zone IIA, IIB & IIC) | FLP |
| | ABS Plastic | ABS |

| Probe MOC | Description | Code |
|-----------|-------------|------|
| | SS 304 | NA |
| | SS 316 | 1 |
| | SS 316L | 2 |
| | Hastalloy-C | OT |
| | Others | |

| Accessories | Description | Code |
|-------------|------------------------|------|
| | Junction Box - FRP/ABS | A1 |
| | Ballast with Rope | A2 |
| | Guide Pipe | A3 |
| | Isolation Valve | A4 |

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