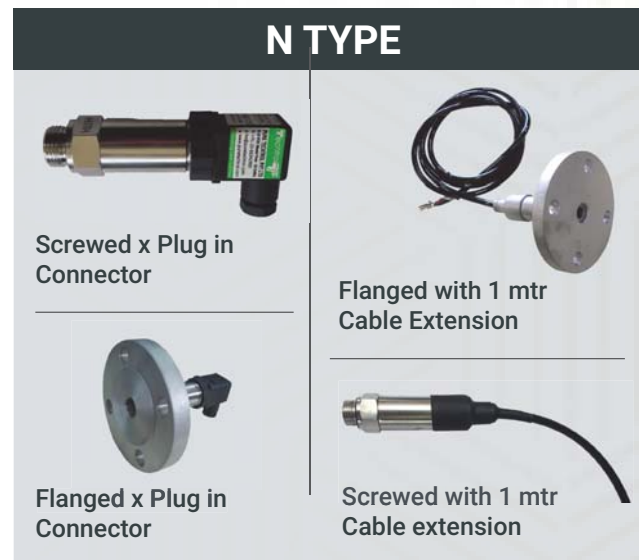


# Hydrostatic Level Transmitter - HLT

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

## Salient Features

- High precision & stability
- Compact, rugged & corrosion resistant
- Cost effective with minimal maintenance.
- Easy to install, transport & handle
- Level range upto 200mtrs liquid column.
- Installation in tanks/wells with small bore diameter.
- Probe with Ingress Protection IP68

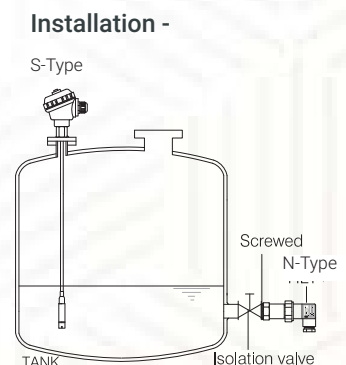


## Construction & Operation

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,  $\rho =$  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.



# Specifications

Type	'S' type (Submersible)		'N' type (Non submersible)	
Measuring Ranges	0.5 .... 200 mtrs water (SG =1)			
Over Pressure Range	+/-2 x Measuring Range			
Supply Voltage	12 - 28 VDC			
Output	4 - 20mA, 2 wire			
Accuracy	0.5% FS			
Load	< 500 Ohms			
Probe MOC	SS316			
Probe Protection	IP68		IP65	
Diaphragm MOC	SS316L			
Process Conn. (MOC)	SS304 or SS316			
Process Connection	1	1-1/2" BSP(M) screwed		1/2" BSP(M) screwed (SS316)
	2	1-1/2" NB ANSI 150 # flange		
Termination x Cable Extention	1	Open Ended Cable (Length = MR +1 mtr)		Open Ended Cable (Length=1mtr)
	2	Enclosure IP 65 (Length = MR)		Plug in connector
Additional Cable Extention	Provided on request			
Cable Type	PE insulated copper wire with PUR jacket (Oil resistant )			
Max. Temperature	70°C			
<b>Accessories</b>				
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		1-1/2" NB ANSI 150 # Flanged Ball Valve x CS	

Note : Transmitter is suitable for tanks under atmospheric pressure condition

## 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

HLT -								x Measuring Range
<b>1. Type</b>								
Submersible	S							
Non submersible	N							
<b>2. Cable Type</b>								
Without (Type-N with Termination-P)	W							
PU Jacketed Cable	D							
Others	O							
<b>3. Termination</b>								
Open Ended Cable Termination	C							
Enclosure Cast Al. IP66 (Type-S)	J							
Plug In Connector (Type-N)	P							
<b>4. Probe MOC</b>								
SS316	S							
Others	O							
<b>5. Process Connection MOC</b>								
Without (Type-S, Termination-C)	W							
SS304	N							
SS316	S							
Others	O							
<b>6. Process Connection Type</b>								
Without (Type-S, Termination-C)	W							
1-1/2" NB ASME 150 # Flange (Type S with Termination- J; Type N with Termination- P)	1							
1-1/2" BSP(M) Screwed (Type-S with Termination- J)	2							
1/2" BSP (M) Screwed (Type-N)	3							
Others	O							
<b>7. Accessories</b>								
Without	W							
Junction Box - ABS Enclosure IP65 x PG 11 Cable Glands (2 nos.)	J							
Ballast with Rope (Type- S)	B							
Guide Pipe (Type- S)	G							
Isolation Valve (Type-N)	I							
Others	O							

## Ordering Information

Model No. x Measuring Range (in step of 1 mtr) x Liquid alongwith its Specific Gravity x Operating Temperature & Pressure.



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