

Features

- Piezo-Resistive Sensor Principle
- Measuring Range upto 500 mtrs.
- Pressure Range 0.4 to 50 bar
- IP-68 Stainless Steel Construction
- $\pm 0.25\%$ F.S. High Accuracy
- 4–20 mA, 2-Wire Output
- Suspension clamp, cable gland (Optional)
- Handy & maintenance free
- Reliable & cost effective
- Simultaneous measurement of level and temperature with optionally integrated PT100 temperature sensor



Description

Electronet series HLT 22 are electronic Level transmitters for fast, easy & trouble free operation. These transmitters are designed to cover a majority of industrial applications. Electrical output in the form of 4-20 mA DC proportional to level is transmitted with operating voltage of 24 V DC. All wetted parts are stainless steel. A robust design for applications in waste waters and sludges or a design free of metal with long-term stability for usage in salt water is also available.

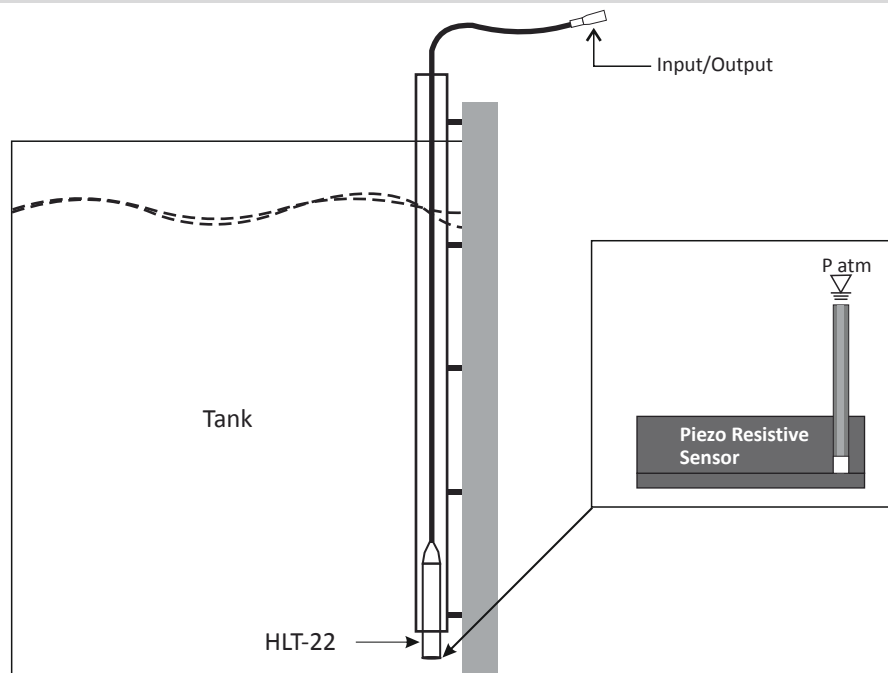
Technical Specifications

Sensor Type	Piezo Resistive
Max. Measuring Range	0 to 500 mtrs
Pressure Range	0.4 to 50 Bar
Output	4 - 20 mA DC, 2 wire
Output Load	600 Ohm
Accuracy	$\pm 0.25\%$ F. S.
Over Pressure Safety	1.5 times max. Pressure range
Burst Pressure	2 times max. Pressure range
Process Temperature	90 °C
Power Supply	24 V DC, External
Over Voltage Protection	36 V DC
Response Time	< 10 mSec for 90% of output
Non Linearity	< 0.2% of SPAN
Non Repeatability	< 0.1% of SPAN
Dielectric Strength	500 VDC
Material of Construction	All wetted parts SS 316
Case	SS-316 with IP 68 Ingress Protection
Operating Conditions	Temperature 0 to 70 °C / Humidity 5 to 95% non condensing
Process connections	Suspension clamp, cable gland
Optional	1) Integrated temperature sensor Pt100, 3-wire 2) Customer specific cable marking

Measuring Principle

The Piezo Resistive Sensor is a dry measuring cell, i.e. pressure acts directly on the piezo resistive isolating diaphragm of the HLT-22. Any changes in the air pressure are routed through the extension cable via a pressure compensation tube to the rear of the piezo resistive isolating diaphragm and compensated for. A pressure dependent change in capacitance caused by the movement of the process isolating diaphragm is measured at the electrodes of the ceramic carrier. The electronics then convert this into a signal which is proportional to the pressure and is linear to the level of the medium.

Installation Drawing



Ordering Information

Sample Order Code : HLT 22-A1-B1

Parameter			Code	Description
A	Level Measuring Range	A1	1000 mm	
		A2	5000 mm	
		A3	10000 mm	
		A4	20000 mm	
		A5	50000 mm	
		A6	100000 mm	
		A7	500000 mm	

Parameter		Code	Description
B	Sensor Cable Length	B1	10 Meter
		B2	50 Meter
		B3	100 Meter
		B4	200 Meter
		B5	500 Meter

Note :

- Due to our continuous product revisions, design specification and model numbers are subject to change without notice.
- Accuracy defined at Lab Conditions. For other requirement please consult factory.
- This product is meant for laboratory/Process application only and not for custody transfer application.

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