Invasive Point Level System





Description

The Ultrasonic Point Level System 162 Series is an ideal solution for detecting liquid in storage vessels, tanks and pipes. With integrated electronics it is a designed for almost any liquid level application. The probe is constructed in 316LSS material. The electronic module is captured in a plastic cassette and is mounted in a NEMA 4/7 explosion proof housing. No calibration for the system is required. An LED indicator on the electronic module offers a visual status of the system. Field selectable Fail safe allows for the relays to be energized on power up or in normal condition to de-energized when liquid is present. A Demand Push button self-test feature on the electronic module assures the user the system is functioning correctly. A half second delay is added from WET to DRY to avoid false trip due to wave action.

Operation



The 1620 Series unit consists of two piezoelectric elements mounted in the housing of the sensor. These elements convert mechanical energy in the form of high frequency sound to electrical energy and vice versa. The elements are mounted parallel and opposite each other across the ½" gap in the probe. A high frequency sent from the electronics to the transmitting element, this vibrates the element at 2 to 4 MHz. Neither Air or gases will carry sound at this high frequency and will not travel across the sensor gap. When the gap is filled with liquid, the sound will travel across the gap to vibrate the receiving element. The vibration generates an electrical signal that is amplified and read by the detector circuit in the electronics as a "wet" signal. The signal is converted to a relay output or a shift in milliamp output

How to Order	HT162-									_
Input:	24VDC -	0	Т	Т	Т	Т	-	Т	Т	Т
	90 to 240VAC -	1					-			
	9-30VDC -	2					-			
Output:	10 ADPDT-		0				-			
Loop Po	wer (4-20mA) -		1				-			
Mounting:	Integral -			1			-			
	Remote -			2			-			
Cable (remote):	in feet -				01		-			
Actuation point is	nches (01"std) -					01	-			
							-			
Process connecti	ion 3/4"NPT -						-	03		
Flai	nge ANSI 150# -						-	Α		
Flange ANSI 300# -							-	В		
Flange Sanitary -							-	C		
Flange size 1" -							-		1	
1.5"-							-		0	
	2"-						-		2	
Se	ensor Material -						-			S

Applications
High Level / Overflow Alarm
Low Level / Pump Protection
Condensate Pots
Sump Water / Oil Detection
Lubricant Circulation Equipment
Fill Machine Level Control
Pump Leak Detection

Sensor material 316LSS is standard, other materials available
Other flange and pressure ratings available
Other remote mounted enclosures available
CONSULT FACTORY FOR CUSTOMIZATION

Repeatability: 2mm or better. Delay (on): 0.5 seconds Standard.

Probe material: 316SS Standard.
Optional material available.
(Kynar (PVDF), CPVC, Titanium)
Actuation point: 1.0" Standard.
Up to 99" available.

Sensor Temperature: -20° to 150°C Sensor Pressure: 1000 PSIG 316LSS. Liquid viscosity: From 1 to 75,000 cps

Process connection: ¾" NPT Standard Flanges mounting available.

Input options: 24VDC, 90 to 240VAC,

Output Options: 10A DPDT

Loop Power 4-16mA

Push Button Demand Self-Test Field Select Fail-Safe Option LED Output Indicator

Electronic mounting: Integral or Remote

Enclosure: Nema 4 / 7

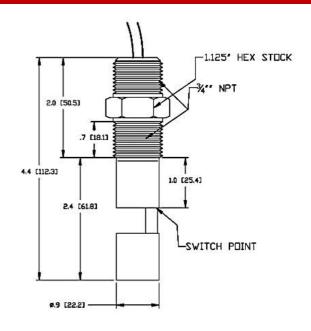
CSA Approval (pending) Explosion Proof Class I Group CD Class II Group EFG Class III Type 4. EP. IP 65.

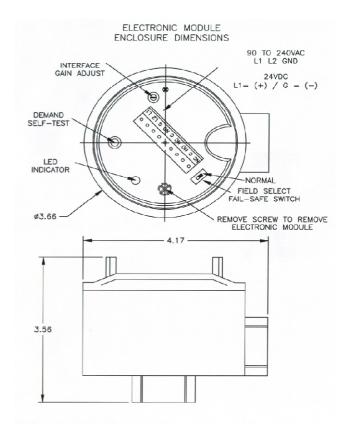
Warranty

HiTECH' level sensors are warranted against inherent defects for a period of two years from the date of shipment.

Performance Guarantee

Should the unit not perform as we claim within 45 days of delivery and was properly installed consistent with our stated requirements and specifications HiTECH will gladly accept a return of the unit for a full credit.





Disclaimer: Due to technical progress all Data Sheets are subject to change without notice. HITECH believes all information in this Data Sheet is correct but is not responsible for any inaccuracies. HITECH is not liable for any damages. It is the customer's responsibility to install, operate and maintain products properly.