

Sound Steadfast Solutions

Made in the U.S.A.

Invasive Point Level System

Solar Powered Sensor

Description



The Ultrasonic Point Level System 166 Series is an ideal solution for detecting liquid in storage vessels, tanks and pipes using solar power. With integrated electronics it is a designed for almost any liquid level application where supplying power is an issue. The probe is constructed in 316LSS material. The electronic module, solar power system and accessories are mounted in a powder coated die cast aluminum enclosure. No calibration for the system is required. A LED strobe indicator on the enclosure offers a visual status of the system. An audio alarm and reset switch is standard along with the battery status and a Demand Push button self-test feature on the electronic module assures the user the system is functioning correctly. A 0.5 second delay is added from WET to DRY to avoid false trip due to wave action.

Operation

The 166 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 nor 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	•	PLS162-									_
Input:		12VDC -	4	Т	Т	Т	T	-	Т	T	ī
								-			
								-			
Output:	Audial	ole and LED-		6				-			
							- 1	-			
Mounting:		Integral -			1			-			
		Remote -			2		- 1	-			
Cable (remote	e):	in feet -				01		-			
Actuation poi	int inch	es (01"std) -					01	-			
								-			
Process conn	ection	3/4"NPT -						-	03		
	Flange	ANSI 150# -						-	Α		
	Flange	ANSI 300# -						-	В		
	Flange	Sanitary -						-	C		
	Fla	nge size 1" -						-		1	
		1.5"-						-		0	
		2"-						-		2	
	Senso	or Material -						-			S

Applications	Industries served					
High Level / Overflow Alarm	Upstream Oil & Gas					
Low Level / Pump Protection	Midstream Oil & Gas					
Condensate Pots	Water & Waste- Water					
Sump Water / Oil Detection	Chemical & Petrochemical					
Lubricant Circulation Equipment	Pulp & Paper					
Fill Machine Level Control	Food & Beverage					
Pump Leak Detection	Military, Subsea / Surface					
	Maritime Shipping					
	Inland Barges, ERC Cargo					

Sensor material 316LSS is standard, other materials available Other flange and pressure ratings available Other remote mounted enclosures available CONSULT C A BRIGGS CO. FOR CUSTOMIZATION

SEP/2019

Order from: C A Briggs Company

622 Mary Street; Suite 101; Warminster, PA 18974 Phone: 267-673-8117 - Fax: 267-673-8118 Sales@cabriggs.com - www.cabriggs.com Repeatability: 2mm or better. Delay (on): 0.5 seconds Standard.

Probe material: 316SS Standard.

Optional material available.

Actuation point: 4.0" Standard (integral). 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.

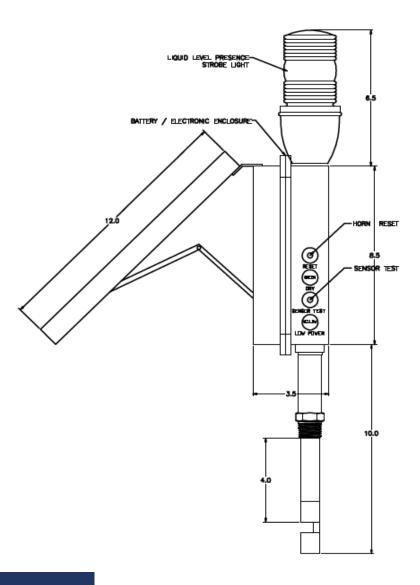
Input options: Solar powered 12VDC,

Output: Audiable Buzzer Strobe LED

Push Button Demand Self-Test Reset Audiable alarm switch 12V Battery

Electronic mounting: Integral or Remote

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



Warranrty

Sensaras' 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 Sensaras 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. Sensaras believes all information in this Data Sheet is correct but is not responsible for any inaccuracies. Sensaras is not liable for any damages. It is the customer's responsibility to install, operate and maintain products properly.