



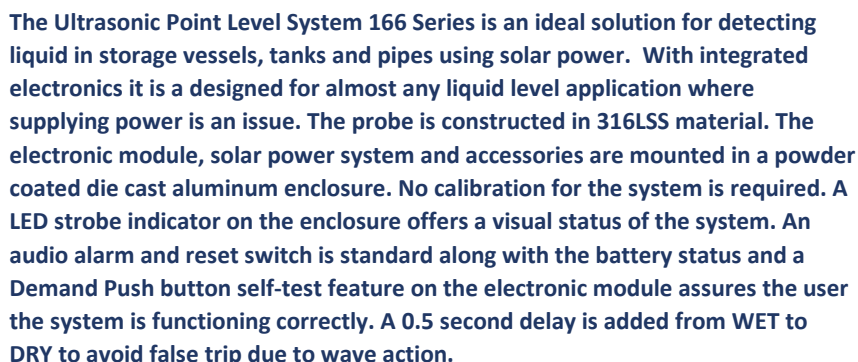
Sound Steadfast Solutions

Made in the U.S.A.

Invasive Point Level System

Solar Powered Sensor

Description



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					-	-	-	-	-
Output:	Audiable and LED	-	6					-	-	-	-	-
Mounting:	Integral	-	--	--	1			-	-	-	-	-
	Remote	-	--	--	2			-	-	-	-	-
Cable (remote):	in feet	-	--	--	--	01		-	-	-	-	-
Actuation point inches	(01"std)	-	--	--	--	--	01	-	-	-	-	-
Process connection	3/4"NPT	-	--	--	--	--	--	-	03	-	-	-
	Flange ANSI 150#	-	--	--	--	--	--	-	A	-	-	-
	Flange ANSI 300#	-	--	--	--	--	--	-	B	-	-	-
	Flange Sanitary	-	--	--	--	--	--	-	C	-	-	-
	Flange size 1"	-	--	--	--	--	--	-	--	1	-	-
	1.5"	-	--	--	--	--	--	-	--	0	-	-
	2"	-	--	--	--	--	--	-	--	2	-	-
	Sensor Material	-	--	--	--	--	--	-	--	--	-	-

Applications

Industries served

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

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



Specifications / Features

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.

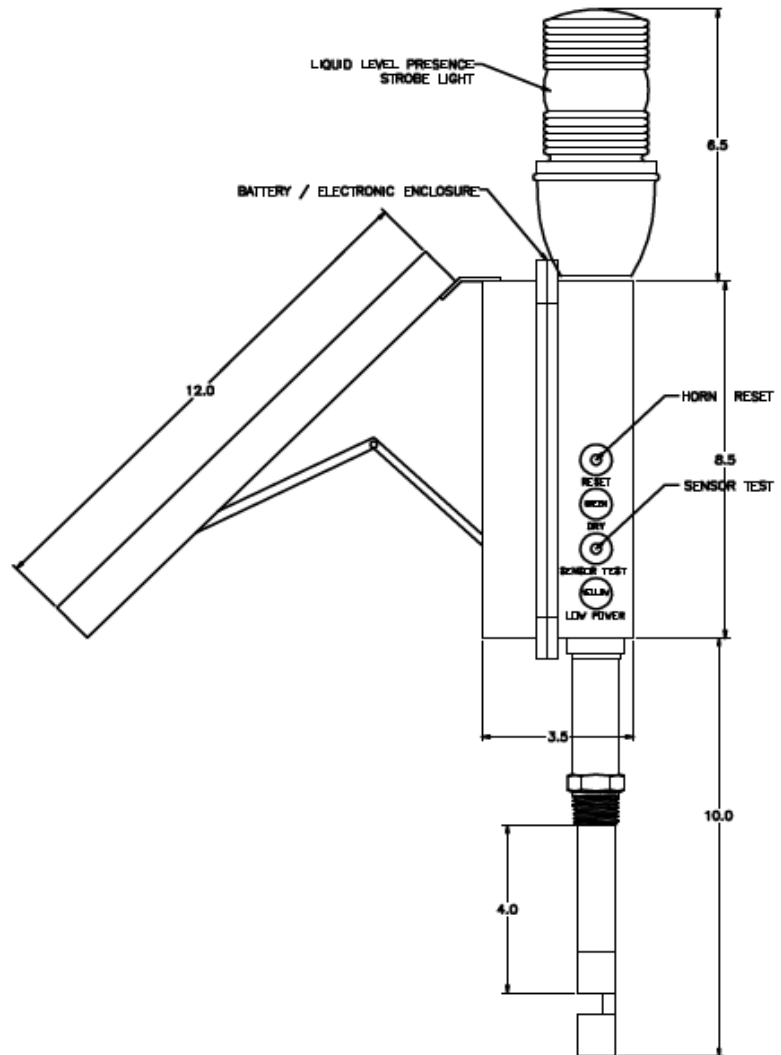
Input options: Solar powered 12VDC,
Output: Audible Buzzer
Strobe LED

Push Button Demand Self-Test
Reset Audible 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.

Dimensions



Warranty

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.

www.sensaras.com

SEP/2019



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