

Submersible Hydrostatic Fresh Water Sensor 0-2m & 0-4m tank depths



- Depth range: 0-2m & 0-4m
- Accuracy @25°C (incl. non linearity, hysteresis and repeatability) $\pm 0.5\%$ F.S.
- Response time < 4 ms
- Overload pressure $2 \times$ F.S.
- Pressure range 0...10mbar to 20bar
- Long term stability $\leq 0.2\%$ F.S./Year
- Temperature coefficient $\pm 0.03\%$ F.S./°C

The Oceanic Systems' Submersible Hydrostatic Fresh Water Tank Sensor is designed with piezoresistive technology.

The housing is rated to IP68 and are hermetically sealed making them perfectly suited for the Fresh Water Tank environment.

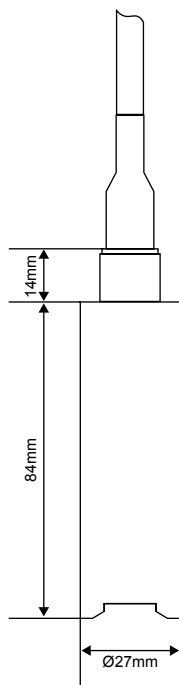
The sensors give long term and accurate readings at pressure ranges from 100 mbar up to 20 bar in the measurement of level and depth. (corresponding to water column depths of 1 m to 200 m).

The electrical connection is a specially designed PU cable with an air tube and the pressure connection is an exposed 316L stainless steel corrugated diaphragm resulting in no pressure port and no blocking problems.

Submersible Hydrostatic Fresh Water Sensor

Part No. 4650-4651

Dimensions



Design Standard				
Accuracy @25°C (incl. non-linearity, hysteresis and repeatability)	±0.5% F.S.			
Response time	2 × F.S.			
Overload pressure	2 × F.S.			
Pressure range	0...10mbar to 20bar			
Pressure type	≤0.2%F.S./Year			
Long term stability	≤0.2%F.S./Year			
Temperature coefficient	±0.03%F.S./°C			
Electrical				
Signal output	4-20mA	0-10V	0-5V/0.5-4.5V	0.5-4.5V
Supply voltage	9-30Vdc	11-30Vdc	10-36Vdc	5VDC
Polarity protected	Yes	Yes	Yes	Yes
Short-circuit protected	Yes	Yes	Yes	Yes
Mechanical				
Materials	Diaphragm	Stainless steel 316L		
	Enclosure	Stainless steel 304		
	Cable	PU		
Sealing rating	IP68			
Weight (depending on cable length)	0.5 - 5.0 kg			
Environmental conditions				
Medium temperature range	-20 to 85°C			
Ambient temperature range	-20 to 85°C			
Compensated temperature range	0 to 60°C			
Pressure range				
4650	0-2m			
4651	0-4m			

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