

## Submersible Hydrostatic Fresh/Grey/Black 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 Water Tank Sensor is designed with piezoresistive technology.

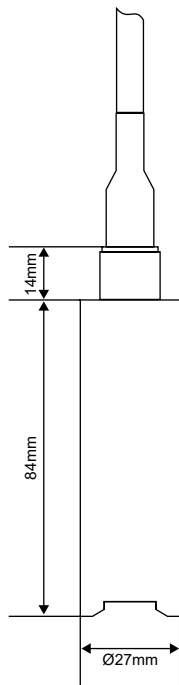
The housing is rated to IP68 and are hermetically sealed making them perfectly suited for all Water Tank environments.

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 1m to 200m).

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/Grey/Black 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			

Connection Way	
Function \ Cable colour	2-Wire ( 4-20ma)
Input+	Red wire
Output	Black wire
Input	-

Oceanic Systems (UK) Ltd  
Unit 10-11 Milton Business Centre, Wick Drive,  
New Milton, Hampshire, BH25 6RH, United Kingdom

Tel (UK): +44(0)1425 610022  
Fax: +44(0)1425 614794  
Web: www.osukl.com

Tel (USA): (844)898 6462  
Email: sales@osukl.com

Copyright © 2020 Oceanic Systems (UK) Ltd. All rights reserved. Our policy is one of continuous product improvement so product specifications are subject to change without notice. Oceanic Systems products are designed to be accurate and reliable. However, they should be used only as aids to vessel monitoring, and not as a replacement for traditional navigation and vessel monitoring techniques.

NMEA2000® is a registered trademark of the National Marine Electronics Association.