

Side Mount Hydrostatic Black Water Sensor



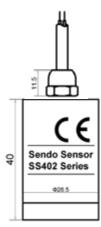
- Output signals: 4-20mA or 0-10V, 0-5V, 0.5-4.5V
- Stainless steel 316L wetted parts
- Silicon oil filled, rugged construction

The Oceanic Systems' Side Mount Hydrostatic Black Water Sensor is designed with piezoresistive technology, and works following the piezoresistive principle. The body of the sensors are designed with stainless steel 316L wetted parts and are rugged and robust.

These sensors offer enhanced anti-interference and surge protection by a digital PCB and have available pressure ranges spanning from 5 psig up to 5800 psig(35KPa to 40MPa). There is a standard media working temperature of up to 100° C and the sensors have a reliable long term performance.

Side Mount Hydrostatic Black Water Sensor Part No. 4672(0-2M)-4673(0-4M)

Dimensions



Mounting



Performance							
Accuracy @25°C (incl. non-linearity, hysteresis and repeatability)				±0.5% F.S.			
Response time				< 4 ms			
Pressure range				00.35bar to 400bar -10bar, -11bar (negative pressure)			
Overload pressure				2.0 × F.S. (≤ 250 bar)			
				1.5 × F.S. (> 250 bar)			
Pressure type				vented gauge, sealed gauge, absolute			
Long term stability				≤0.2%F.S./Year			
Temperature coefficient				±0.03%F.S./°C			
Electrical specifications							
	4-20mA (enhanced digital)	0-10V (enhanced digital)	4.!	0-5V/0.5- 4.5V (analog)		0.5-4.5V (analog)	
Supply voltage	9-30Vdc	11-30Vdc	10	10-36Vdc		5Vdc	
Polarity protected	Yes	Yes	Ye	Yes		Yes	
Short-circuit protected	Yes	Yes	Ye	Yes		Yes	
Zero and span adjustment	No	No	Ye	Yes		Yes	
Surge protection	Yes	Yes	No	No		No	
Environmental conditions							
Medium temperature range(more see optional 1 in page 3)					-40°C - +100°C		
Ambient temperature range (depending on electric connection)				l -20°C - +80°C			
Compensated temperature range				-10°C - +70°C			
EMC - Emission				EN 61000-6-3			
EMC - Immunity				EN 61000-6-1			
Insulation resistance				>100 MΩ at 250 V) MΩ at 250 V	
Mechanical characteristics							
Materials	s Wetted parts			Stainless steel 316L			
	Enclosu	Enclosure			Stainless steel		
Electrical connections				PA66			
Weight (depending electrical connection		onnection and 22		225-5	225-500g		
Pressure connection G1/2							
Electrical connection Direct cable							
	I						

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 © 2019 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.