Side Mount Hydrostatic Fuel/Fresh Water Sensor



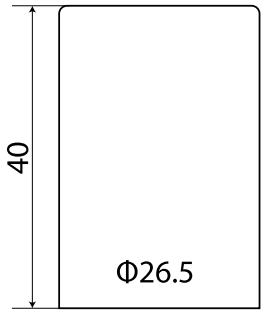
- **Pressure ranges from 0.1 up to 1000bar**
- **Isolated construction, able to test various media**
- **Stainless steel 316L diaphragm**
- **Vented gauge, sealed gauge and absolute pressure**
- **Analog PCB, zero/span adjustable**
- **Piezoresistive pressure sensor, silicone oil filled**
- **Output signals: 4-20mA and 0-10V, 0-5V voltage output**

The Oceanic Systems' Side Mount Hydrostatic Fuel/Fresh Water Sensor works on following the piezoresistive principle and has a standard medium working temperature from -20~100°C.

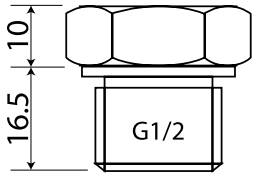
The sensor adopts a high performance piezoresistive pressure transducer as the sensing part, the inner structure is O-ring sealed and has a 0 to 70°C wide temperature compensation. This sensor is suited for applications in marine environments for sensing pressures ranging from 0,1 to 1000 bar.

Side Mount Hydrostatic Fuel/Fresh Water Sensor. *Part No. 4670(0-2M)-4671(0-4M)*

Dimensions



Mounting



Performance	
Accuracy @25°C (incl. non-linearity, hysteresis and repeatability)	±0.5% F.S.
Non-linearity BFSL (conformity)	≤ ±0.3% F.S.
Hysteresis and repeatability	≤ ±0.1% F.S
Response time	< 4 ms
Pressure range	0...0.1bar to 1000bar -1...0bar, -1...1bar(negative pressure)
Overload pressure	2.0 × F.S. (≤ 250 bar)
	1.5 × F.S. (> 250 bar)
	1.2 × F.S. (1000bar)
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 (analog)	0-10V (analog)	0-5V/0.5-4.5V (analog)	0.5-4.5V (analog)
Supply voltage	12-36Vdc	15-36Vdc	10-36Vdc	5Vdc
Polarity protected	Yes	Yes	Yes	Yes
Short-circuit protected	Yes	Yes	Yes	Yes
Zero and span adjustment	Yes	Yes	Yes	Yes
Surge protection	No	No	No	No

Environmental conditions	
Medium temperature range	-20°C — +100°C
Ambient temperature range (depending on electrical connection)	-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

Mechanical characteristics		
Materials	Diaphragm	Stainless steel 316L
	Enclosure	Stainless steel 304
	Electrical connections	PA66, stainless steel
	O-ring	Viton
Weight (depending on pressure connection and electrical connection)		0.15 - 0.3 kg
Pressure connection	G1/2	
Electrical connection	Direct cable	

Electrical connections		
	DIN43650 connection	Cable connection
4-20mA Current output signal (2 wire)	Pin 1: + supply Pin 2: + output Pin 3: Not used Earth: Not connected	Red: + supply Black: + output
0-10V, 0-5V, 0.5-4.5V Voltage output signal (3 wire)	Pin 1: + supply Pin 2: GND Pin 3: + output Earth: Not connected	Red: + supply Black: GND Blue: + output
IP protection (fulfilled together with mating connector)	protection (fulfilled together with mating connector) IP 65	IP 65

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

Tel: +44(0)1425 610022
Email: sales@osukl.com
Web: www.osukl.com

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