SUBSEA PRESSURE SENSOR

ESPS 3000 SENSOR SERIES



Description

The compact subsea pressure transmitter ESPS 3000 is designed for use in almost all subsea applications, and offers a reliable pressure measurement even under harsh environmental conditions.

Excellent vibration stability, robust construction, and a high degree of EMI protection equip the pressure transmitter to meet the most stringent industrial requirements.

Next to the delivery of stand-alone sensors, Envirex Group supplies full-fledged subsea monitoring / control systems, which include all related sub-systems: mechanics, hydraulics, software, electronics, controls and more.

Features

- High Accuracy
- Wetted parts made of stainless steel
- Compact and robust design
- ☐ Pressure ranges from 0 to 2200 Bar
- □ Submersible to 3000 m seawater
- Service and user friendly
- 4-20mA or RS232 / CAN-bus COMS



Specifications

ESPS 3000 PRESSURE SENSOR SERIES

General Technical Specifications

Type ESPS 3000 Series Subsea Pressure Sensor Material AISI316L

Hydraulic

Connection Comp 1/8" BSP Connection Comp 1/8" BSP

Connection Pressure 1/4" BSP / 1/4" Autoclave

Technical Data

Accuracy (incl. nonlinearity, hysteresis and repeatability) $\pm 0.5\%$ FS
Thermal zero point shift $<\pm 0.15\%$ FS/10K
Thermal span shift $<\pm 0.15\%$ FS/10K
Response time liquid (10-90%) >0.5 ms
Durability, P: 10-90% FS $>10 \times 106$ cycles

Overload/Burst Pressure Table

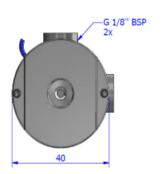
Nominal Pressure(bar)	250	400	600	1000*	1600*	2200*
Overload Pressure	500	800	1400	2000	2500	3000
Burst Pressure	2500	4000	>4000	>4000	>4000	>4000

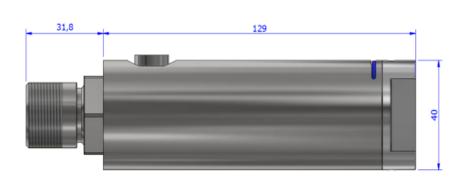
^{*}Only available with 1/4" Medium Pressure Port

Environmental Specification

* To achieve subsea reading with local ambient pressure at depth with the zero point being equal to the ambient pressure a compensator must be connected to the sensor. Environt can also supply suitable subsea pressure compensator on request.

Dimensions







SPECIFICATIONS

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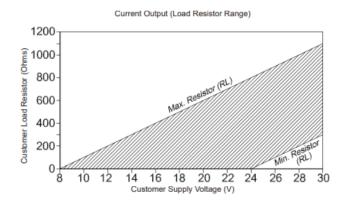
Electrical Specifications

Output Signal Supply Voltage Connector Type 4-20mA or RS232 / CAN-bus 8 to 30VDC G5507-1508*

*Compatible with Burton / Seacon connectors

Load Chart

4 to 20mA output - min. / max. resistance vs supply voltage



Note: Loop current should not exceed 22 mA continuous or 25 mA temporarily due to pressure peaks

Connector Pin-Out

4-20MA	R5232 / CAN-bus
Pin 01: NC	Pin 01: 0V
Pin 02:24VDC	Pin 02: 24VDC
Pin 03: 4-20mA	Pin 03: CAN Hi
Pin 04: NC	Pin 04: CAN Lo
Pin 05: NC	Pin 05: RS232 TX
Pin 06: NC	Pin 06: RS232 RX
Pin 07: NC	Pin 07: RS232 GND
Pin 08: NC	Pin 08: NC

3 2 1 6 5 4 8 7

5507-1508 Face view

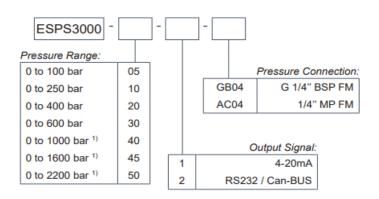
Note:

4 20m A

Versions from 2017 and older have another pin-out.

Contact us for further information.

Ordering Codes



DC222 / CAN bus

Accessories

- Pigtail Cable G5501-15-08-004 (1,20 m)

- Mini Compensator 30 ml 1" BSP

- Mini Compensator Adapter 1" - 1/4" BSP

V101486 V100217

V100217



¹⁾ Only available with AC04 Pressure Connection