

Subsea Pressure Sensor

ESPS 3000 Subsea Pressure Sensor series



- High accuracy
- Compact and robust design
- For temperatures up to 125°C
- Service and user friendly
- Wetted parts made of stainless steel
- Pressure ranges from 0 to 2200Bar
- Submersible to 3000M seawater
- 4-20mA or RS232 / CAN-Bus COMS

Specifications

ESPS 3000 Subsea pressure sensor series

General technical specifications

Type	ESPS 3000 Series, Subsea Pressure Sensor
Materials	AISI316L

Technical data

Accuracy (incl. nonlinearity, hysteresis and repeatability)	±0.5% FS
Thermal zero point shift	<± 0.15% FS/ 10K
Thermal span shift	<±0.15% FS/ 10K
Response time liquids(10-90%)	> 0.5 ms
Durability, P: 10-90% FS	>10 ×10 ⁶ 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 specifications

Media temperature range	-40°C → +125°C
Ambient temperature range	-15°C → +70°C
Compensated temperature range	-15°C → +70°C
Electrical performance compliance	ISO 7637
Vibration stability	[20g, 10-2000 Hz, sinus] EN 60068-2-6
Shock resistance	[100g] EN 60068-2-27
Pressure reference	Athmosphere (Relative)*

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

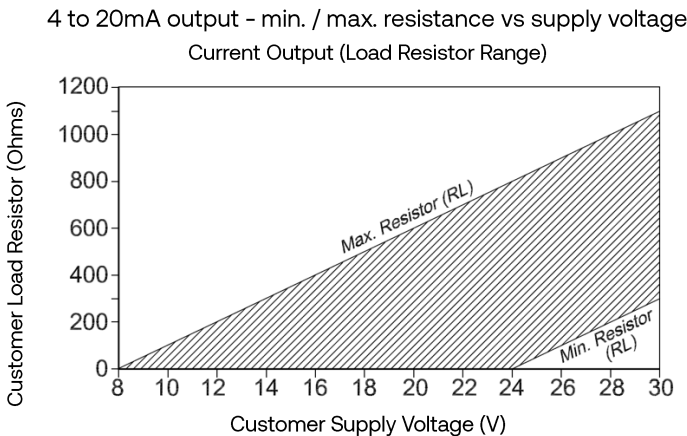
Specifications

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Electrical specifications

Output signal	4-20mA or RS232 / CAN-Bus
Supply voltage	8 to 30VDC
Connector type	G5507-1508*
* Compatible with Burton / Seacon connectors	

Load chart



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

Connector Pin-Out

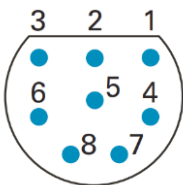
4-20mA

- Pin 01: NC
- Pin 02: 24VDC
- Pin 03: 4-20mA
- Pin 04: NC
- Pin 05: NC
- Pin 06: NC
- Pin 07: NC
- Pin 08: NC

Note:
Versions from 2017 and older have other pin-out. Contact us for further information.

RS232 / CAN-Bus

- Pin 01: 0V
- Pin 02: 24VDC
- Pin 03: CAN Hi
- Pin 04: Can Lo
- Pin 05: RS232 TX
- Pin 06: RS232 RX
- Pin 07: RS232 GND
- Pin 08: NC



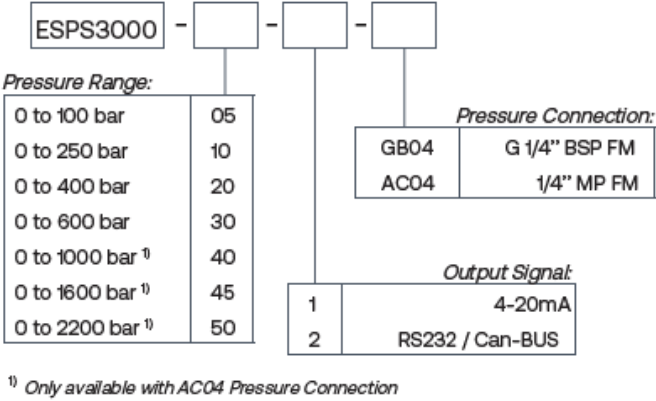
5507-1508 Face view

Note: The specification details are illustrative for marketing purposes only.
Actual equipment may be different as a result of product improvement or other reasons.
Specific interface and performance information should be reconfirmed at time of order placement.

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Ordering codes



Accessories

- EVX Mini Compensator adapter 1" – 1/4" BSP
 - Pigtail Cable G5501-15-08-0004 (4 Feet long)
 - EVX Mini Compensator 30ml 1" BSP
- Part Number: 112345

Part Number: 101905

Part Number: 102933

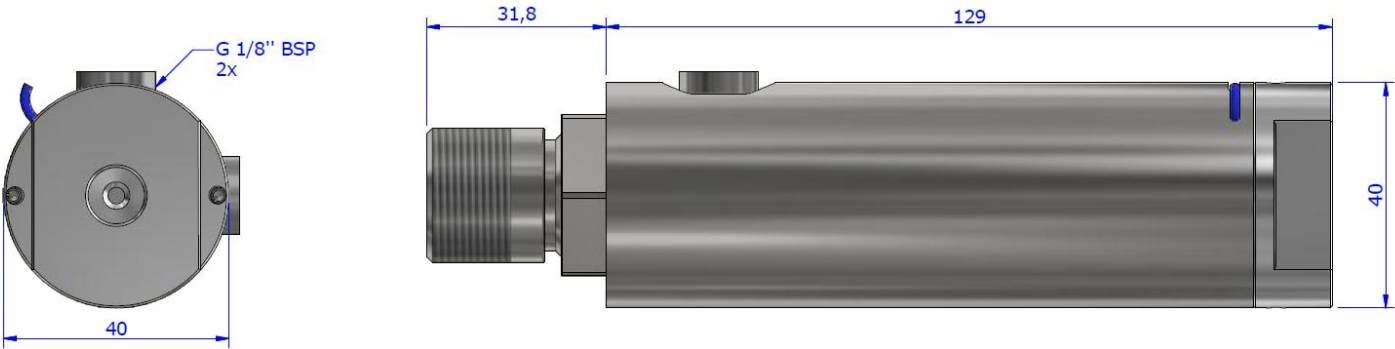
Included documentation

- Sensor Test Report
- DoC (Declaration of Conformity)
- Technical Datasheet

Optional documentation

- Calibration Certificate
- Other required tests and documentation
- Optional documentation only delivered on request

Dimensions



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