



P-110 Technical Datasheet

Cargo Inert Gas Pressure (IGP) Sensor

- Measurement of tank pressure
- Absolute gauging technique, sensor completely sealed
- Diaphragm and housing material stainless steel AiSi 316 L
- Semi flush diaphragm

Technical data

Measuring data

Sensor type	STS ATM/N/Ex34
Principle of measurement	Absolute pressure (no vent tube)
Pressure ranges (absolute)	0.7...2.0 bar / 10...30 psi
Overpressure capabilities	3x FS / 6 bar
Burst pressure	> 200 bar

Measuring accuracy

Overall accuracy	+/- 0.5%. Including hysteresis and repeatability
Long term stability	4 mbar over 1 year

Ambient conditions

Compensated temperature range	-20...+80°C / -4...+175°F
Operating temperature range	-40...+125°C / -40...+260°F
Ingress protection	IP68

Product conditions

Media	Measures all gases and liquids
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Materials

Pressure element	Piezo resistive
Diaphragm	316 L
Housing	316 L

Power supply

Supply voltage	10-30 V DC
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Output

Signal output	4...20 mA
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Certificates and approvals

Ex approval	EEx ia IIC T4
IACS approvals	DNV, ABS, GL, LR, BV, CCS, NK, RINA, KR (The P-110 is considered an integral part of the OPTIWAVE 8300 C Marine, thus covered by Type Approvals)

Measurement of tank pressure

The P-110 is ideal for inert gas pressure measurements. It has a robust design, and is based upon a highly accurate piezo resistive pressure element.

The P-110 Inert Gas Pressure Sensor is mounted on the radar mounting flange, and is connected inside the radar. The sensor fulfills the requirement for secondary means of protection for over- and under pressure as per Solas 11 Reg 59, when connected to the CARGOMASTER® system.

Dimensions



1/2" BSP



For further technical details, please contact KROHNE Skarpenord