



## P-105 Technical Datasheet

### Precision Cargo Level Sensor

- Extremely robust and accurate cargo tank level sensor
- Absolute gauging technique - sensor completely sealed
- Inconel diaphragm
- Housing material resistive to any media
- Flush diaphragm and low movement - not affected by sludge or sediments

## Technical data

### Measuring data

Principle of measurement	Absolute pressure (no vent tube)
Pressure ranges (absolute)	0.7...2.5 bar / 10...30 psi 0.7...3.5 bar / 10...50 psi 0.7...5.5 bar / 10...80 psi
Overpressure	5 x FRO

### Measuring accuracy

Typical system accuracy (pressure)	Better than + (0.03% of FRO + 0.02% of reading)
Sensitivity	3mV/V
Repeatability	≤ 0.5 x error of measurement
Accuracy (temperature)	Better than + 0.2 °C / + 0.35 °F (Pt 1000 Class A)

### Ambient conditions

Operating temperature range	-40...+125 °C / -40...+260 °F
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### Product conditions

Media	measures all liquids and solids
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### Materials

Diaphragm	Inconel 625
Housing and flange	Incoloy 825

### Power supply

Connection	Bayonet type 6 way shell size 10 or moulded cable, cut to fit EEx ia IIC T4...T6
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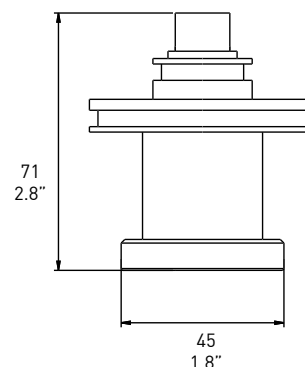
### Output

Signal output	1...10 mV
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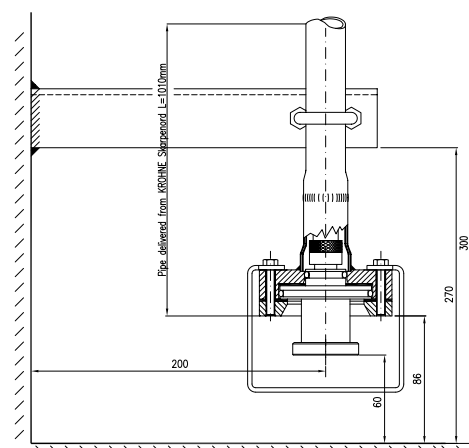
### Certificates and approvals

Ex approval	EEx ia IIC T4...T6
Type approvals	All major classification societies

### Dimensions in mm and inches



### Bottom sensor installation

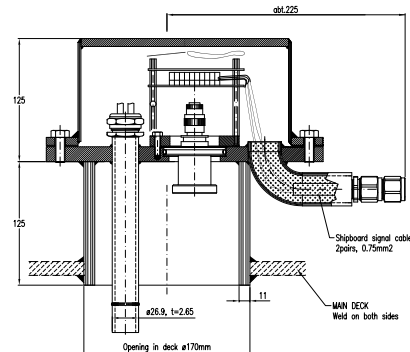


### Cargo tank level measurement

The P-105 precision cargo level sensor is a highly accurate level instrument. With integrated temperature measurement and self calibration, it offers the most reliable tank reading in the marine business of pressure sensors. Our pressure sensors have been used for cargo level gauging for 30 years, most sensors are still in operation and providing a good level for our customers every day. The P-105 is now used for special chemicals, small tanks and tanks that are not suited for a radar installation.

In combination with our radar level instruments, we offer unbeaten benefits through our Hybrid Level Gauging systems.

### Deck junction box (sideview)



For further technical details, please contact KROHNE Skarpenord.