

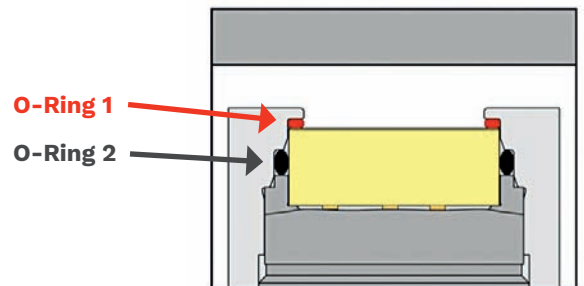
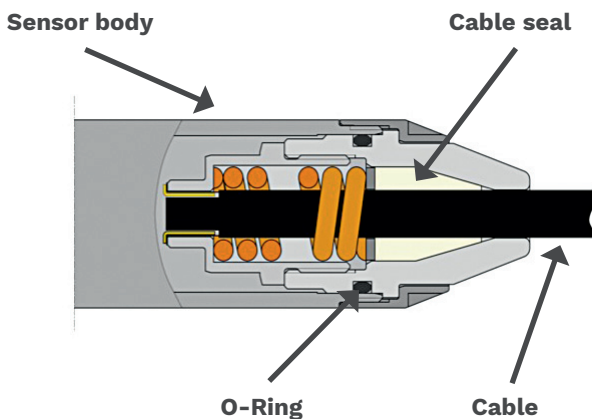
CASE STUDY

SANSEN® PRESSURE AND TANK LEVEL SENSORS

Pressure sensors are often used in Tank Level Gauging Systems (TLGS) to monitor ballast water, fuel oil or cargo tanks.

SANSEN® pressure sensors

- / Ceramic measuring cell inert to avoid electro-chemical corrosion and mechanical damage by solid particles
- / Highly resistant duplex steel body
- / Double sealing system for measuring cell and cable entry
- / 5 year warranty possible
- / All relevant class approvals
- / Submerged installation in FO tanks up to 100 °C possible
- / Temperature compensation available
- / Also available for hazardous zone installation



BACKGROUND

As there are a number of factors affecting the lifetime and functionality of a sensor, top quality is essential to avoid frequent replacements. What we can observe from our long-term experience: Initially, the sensor signals (or calculated tank level) may appear to drift, later the tank is reported empty while being full or vice versa or the sensor fails completely. This may lead to inaccurate tank level readings, delayed ballasting/de-ballasting and failed vetting inspection.

TYPICAL CAUSES OF SENSOR DAMAGE

- / corrosive tank content (sea water, certain cargoes)
- / chemical effects (oxidants from ballast water treatment, both electrolytic and UV light, such as chlorine and hydroxyl radicals)
- / electro-chemical corrosion (runaway electric currents from impressed current cathodic protection system or anti-fouling system)
- / pressure shocks (overfilling of ballast tanks, installation close to tank inlet)



Sensor membrane:
Mechanical damage



Sensor body:
Electro-chemical corrosion (ballast tank)

Avoid sensor damage. Choose SANDER quality. Benefit from

- / Reduced OPEX
- / Reliable stock keeping
- / Less downtime / service time
- / Simple ballasting / de-ballasting procedures
- / Longer service intervals

CONTACT

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