

Roxar subsea SenCorr CM sensor

intrusive corrosion monitoring sensor
- 10,000 psi / 690 bar

Data Sheet



Subsea Corrosion Monitoring (CM) sensor

The SenCorr CM sensor measures corrosion with high accuracy and rapid response. Utilizing the ER (Electrical Resistance) measurement principle, this highly durable sensor measures the corrosion rate as an increase in electrical resistance of a single corrosion-sensing element as it is exposed to in-line corrosion.

The increase in resistance is proportional to the accumulated corrosion within the measurement period.



INTERPRETATION



MODELING



SIMULATION



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Specifications - CM 10,000 psi

Interface Details - Mechanical**Connection type to pipe:**

- Integral flange API 6A 6BX 2 1/16" 10,000 psi, PSL3, PR1, Duplex ASTM A182-F51
- Ring gasket BX 152 CRA Inconel 625 (UNS N06625) all wetted parts
Temperature range: KX
Material class: HH

Connector type:

- Duplex (UNS S31803) top cover with interface to Tronic, ODI or Omnitec Anguila interface

CM probe body material:

- Inconel 625 (UNS NO6625)

CM element thickness:

- 4 mm standard (option 3 - 6 mm)

CM element material:

- Similar material to the pipe being monitored

Sensor weight:

- Approximate 31 kg

Interface Details - Electrical**Power supply:**

- 24 VDC (10 to 32 VDC)

Current consumption:

- 24 VDC: Max. 75 mA idle, max. 150 mA during measurement

Interface Details - Logic**Communication protocol:**

- ModBus, ProfiBus, CanBus, CorrOcean Native Protocol

Communication to Subsea Control System:

- RS485

Specifications**Design water depth:**

- 3,000 meters / 10,000 feet

Design life:

- 25 years

CM element sensitivity:

- ± 40 nm over 24 hour period

Maximum shock:

- 10 g, 11 ms half sine (all 6 axis)

Maximum vibration level:

- Frequency range 5-150 Hz, 5-25 Hz: ± 2 mm, 25-150 Hz: 5g

Operating pressure range - Full Scale Range (FSR):

- 0-690 bar / 0-10,000 psi

Maximum test pressure:

- 1,035 bar / 15,000 psi

Operating temperature range:

- -40°C to $+140^{\circ}\text{C}$ / -40°F to $+284^{\circ}\text{F}$

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www.roxar.com

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