Roxar subsea
SenCorr SE sensor

intrusive sand & erosion sensor
- 15,000 psi / 1,035 bar

Data Sheet

Subsea Sand and Erosion (SE) Sensor

Erosion is measured with high accuracy and rapid response to sand production. Four independent sensing elements operate on the electrical resistance principle. The elements measure increased element resistance as they are exposed to sand erosion.

For additional Pressure and Temperature measurement, refer to SenCorr SEPT data sheets.

Interface Details - Mechanical

Connection type to pipe:
- Integral flange API 6A 6BX 2 1/16" 15,000 psi, PSL3, PR1, Incoloy 925 (UNS N09925)
- Ring gasket BX 152 CRA
  Temperature range: KX
  Material class: HH

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

SE probe material:
- Inconel 625 (UNS NO6625)

SE element thickness:
- 1000 µm

SE element thickness, reference:
- 500 µm

SE element material:
- Monel 400

Sensor weight:
- Approximate 31 kg

Interface Details - Electrical

Power supply:
- 24 VDC (10 to 32 VDC)

Current consumption:
- Maximum 150 mA at 24V
  At idle 60 mA at 24V

Interface Details - Logic

Communication protocol:
- ModBus, ProfiBus, CanBus, Roxar CorrOcean Native Protocol

Communication to subsea control system:
- RS485

Specifications

Design water depth:
- 3,000 meters / 10,000 feet

Design life:
- 25 years

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

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

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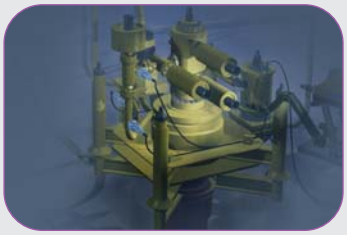

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