4Subsea helps operators reduce cost of operations and maximise life of assets using autonomous sensors in combination with data analytics and specialist engineering competence. Products in the Smart Monitoring Sensors (SMS) range are SMS Motion™, SMS Strain™, SMS Magic Hand™, SMS Gateway™, SMS ComCentral™, and SMS Guard™. Technology applications include monitoring of wellhead integrity, risers, mooring lines, subsea spools and manifolds, as well as monitoring of pipelines and subsea structures for oil & gas and offshore wind sub-structures.
Port
Type RS485, two-wire, half duplex or RS232, 3-wire (alternative configuration)
Baud rates 9600, 19200, 38400, 57600, 115200
Connector Seacon, 5-pins, CS-MS-BCR bulkhead
Pinout Pin1=+24V, Pin2=NC, Pin3=LINE-/ROV-TX, Pin4=LINE+/ROV-RX, Pin5=GND (RS485/RS232)

Power Supply
Input voltage +6.0V to +26V
Current consumption <2mA average (<15mA peak current at power up)

Optical Communication Port
Range 0.5m to 1.0m in water (6m in air)
Baud rate 115200
Mode of operation Half duplex
Wavelength 890 nm
Eye safety Class 1 (IEC60825-1), i.e. eye-safe under all operating conditions
Directionality +/- 14° in air and +/- 11° in water

LED Indicator
Type Red LED (power-up indicator, visible through the optical lens)

Environmental
Operating temperature 0° C to 30° C
Storage temperature -5° C to 50° C
Pressure rating 3000m water depth

Housing
Material Stainless steel 316L
Length 77 mm
Diameter 114 mm
Weight in air 5.1 kg
Weight in water 4.3 kg

Housing (office version)
Material Aluminum
Dimensions 112 x 60 x 42 mm
Weight 310g
Serial cable length 1.8 m

The sensor is designed and tested in accordance with ISO13628-6, API 17F.

4Subsea is a leading provider of technology and services that help operators optimise energy production from subsea oil & gas fields and offshore wind farms. We combine domain expertise with data analytics and digital services to maximise lifetime of assets, reduce operational cost and optimise future projects through data-driven design.

The company was established in 2007 and clients include the major energy operators as well as the large suppliers of subsea equipment. 4Subsea is headquartered in Asker, Norway with additional offices in Bergen, Kristiansand, Rio de Janeiro, and Aberdeen. 4Subsea is a company in the Subsea 7 Group. More info at www.4subsea.com.

4Subsea - Share ideas, move forward