

SMS Magic Hand™

Seafloor to Topside in Seconds

Technical Data Sheet

SMS Magic Hand™ is an ROV-carried modem that can be used to configure and download data wirelessly from SMS Gyro™ when the sensors are deployed subsea. Raw data or statistical data can be downloaded from the sensor by a simple mouse click on a topside computer.

The modem has a rugged design, can be equipped with a protective bumper structure made of rubber, and comes with a fishtail adapter with flex joint. A cable connects the SMS Magic Hand™ modem to the ROV for power supply and RS485 contact to the umbilical system.



[Click on picture to play demonstration video of Smart Monitoring Sensors](#)

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 Gyro™**, **SMS Vibration™**, **SMS Strain™**, **SMS Magic Hand™**, **SMS Gateway™**, **SMS Pressure™**, and **SMS Satellite™**. Technology applications include monitoring of wellhead integrity, risers, mooring lines, subsea spools and manifolds, as well as monitoring of pipelines and subsea structures.

Port

Type RS485, two-wire, half duplex
Baud rates 9600, 19200, 38400, 57600, 115200
Connector Seacon, 5-pins, CS-MS-BCR bulkhead
Pinout Pin1=+24V, Pin2=NC, Pin3=LINE-
Pin4=LINE+, Pin5=GND

Power Supply

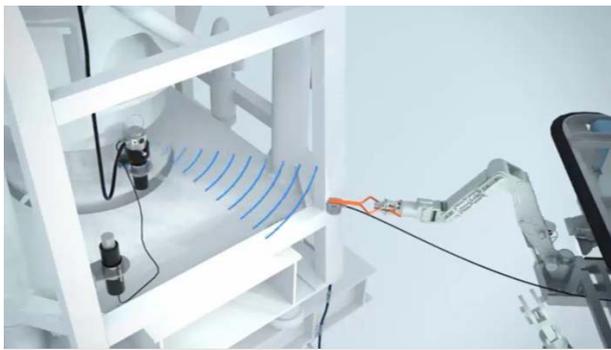
Input voltage +5.0V to +26V
Current consumption <2mA average (<15mA peak current at power up)

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)



Housing

Material Stainless steel 316L
Length 100 mm
Diameter 90 mm
Weight in air 4.9 kg
Weight in water 3.8 kg
Sealing 2 x O-rings (axial)
Optical window Polycarbonate
Safety No risk of building up dangerous pressure

Environmental

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

View the SMS Magic Hand™ in action

[Click here to watch demonstration video](#)



4Subsea is a leading provider of technology and services that help operators maintain production from subsea oil and gas fields and offshore wind farms. By combining expert engineering competence, practical experience and a digital service, we ensure the integrity of assets all the way from reservoir to deck.

We deliver solutions on a unique digital platform, aiming to be in the forefront of digitising oil, gas and offshore wind operations worldwide. The company was established in 2007, and clients include all the major oil and gas operators as well as the large suppliers of subsea equipment.

Click [here](#) to view a short video of our solutions and offerings.

4Subsea - Share ideas, move forward

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