

# SMS Satellite™

*A modem for data communication from remote subsea areas*



## *Technical Data Sheet*

The SMS Satellite™ is designed to transfer data from autonomous subsea sensors back to shore. The unit can be used for alarms, sending of intermittent data packages, or for continuous data transfer from any subsea sensor back to shore.

SMS Satellite™ brings satellite phone technology to the subsea industry, allowing for use of battery powered autonomous sensors subsea while still getting data transferred back to shore. The unit comes in three configurations; SMS Satellite™ Alarm, SMS Satellite™ Cartridge, and SMS Satellite™ Buoy.

### **SMS Satellite™ Alarm**

This is the simplest configuration suitable for connecting to any subsea sensor. It monitors and interprets results subsea in order to detect if an alarm should go off. The unit consists of a Floater with a satellite modem and a Releaser that is connected to the sensor subsea sensor. The Floater is mechanically attached to the Releaser until an alarm data package is transferred to the Floater and a release command is sent to the Releaser via the SenseBus. The Floater will be released, ascend to the surface and transmit its alarm message back to shore.

### **SMS Satellite™ Cartridge**

For some applications you may want a status update at regular intervals. In this case a cartridge of multiple floaters is installed. This enables you to release and send back data packages at pre-set intervals to get information of the status of the subsea equipment.

### **SMS Satellite™ Buoy**

For applications where it is important with live data from the subsea sensor, a buoy is installed on the surface. Data is transferred acoustically from the sensor to the buoy, and subsequently data packages are sent from the buoy to shore on a regular basis.

### **Applications**

The SMS Satellite™ modem can typically be used to report an alarm or adverse event situation and/or send vital statistical data from a logging campaign. The product has particular value in remote areas or in locations where online systems or ROV-access is too expensive or unavailable.

Typical applications include monitoring of subsea production facilities, production jumpers, spools and manifolds, pipeline freespans, mooring lines and other subsea structures.

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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.

### Floater

Material **POM**  
Length **200 mm**  
Diameter **80 mm**  
Satellite system **Iridium**  
Data message size **2kB (typical)**  
Batteries **3x Lithium AA-cell**  
Service life **5 years**

### Releaser

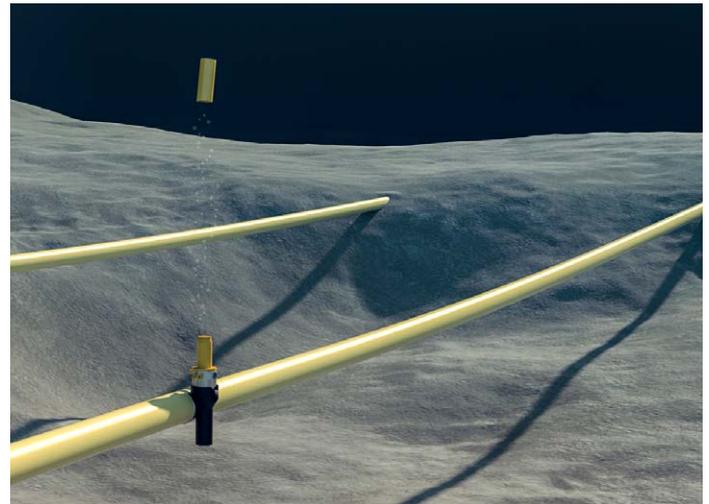
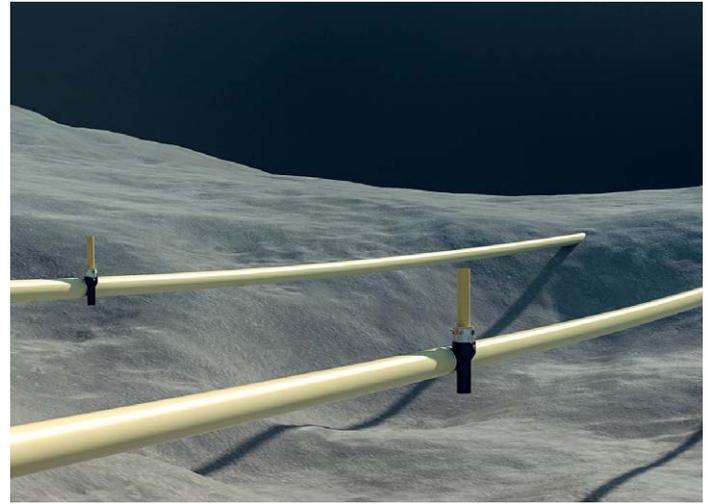
Material **316L**  
Length **140 mm**  
Diameter **80 mm**  
Communication port **RS485 (SenseBus)**  
Baud rate **115200**  
Batteries **3x Lithium AA-cell**  
Service life **5 years**

### Environmental

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



*Releaser and Floater (on top) and SMS Gyro™ sensor with 5-year battery pack (below)*



*The Floater is released, ascends to the surface and transmits its alarm message back to shore.*



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.

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