

RTS CUBE SDM



Structure Heading and Deflection monitoring

The RTS CUBE SDM is a self-contained monitoring for subsea structures. It is used during the deployment and installation phase but can also be utilized for long-term monitoring to ensure structure stability and position. In addition to monitoring heading, deflection and suction can pressure, the system can also provide the user with live video and a number of optional sensors. Based on a proven track record the RTS CUBE SDM is the second generation of SDM systems and offers unparalleled performance and control during critical operations.

Specifications

Product	RTS CUBE SDM
Country of origin	Norway
Manufacturer	Rental Technology & Services AS

Main features

- Real-time comprehensive structure monitoring
- Software for presentation, control and calibration
- Logging and time-stamping of all sensor data
- Wireless system testing and logging
- Real-time tide compensation
- Robust and compact construction
- ROV connection
- Sensor choice flexibility
- Data output for third party software
- Engineered based on proven track record

Specifications

Subsea Logger RTS SiLOG SDM	<p>1 x Heading and Attitude sensor. Compatible with all commonly used Gyro compasses and attitude sensors.</p> <p>8 x Depth and pressure sensors. Measuring Depth, tide and height differences.</p> <p>4 x Differential pressure sensors for suction-can pressure monitoring.</p> <p>1 x Modem and/or Transponder. Live communication through ROV-installed acoustic modem or cNODE (HiPAP/APOS).</p> <p>1 x RF switch and Communication. Wireless communication and system setup on deck.</p> <p>1 x Wet-mateable connector (hot stab). Direct connection for online data and power.</p> <p>2 x Subsea display. Direct visual reading of attitude, heading and/or pressure data.</p> <p>10 x Additional RS232/RS485/Ethernet ports available for additional sensors or ethernet cameras.</p> <p>4 x RTS Power Pack battery slots.</p>
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Mechanical

Dimensions	55 x 55 x 100 cm
Weight	Approx. 260 kg depending on configuration, additional payload 340kg, MGW 600 kg

General

Internal data logger	Data is logged on SD-micro cards. Up to three 32 GB memory cards can be used for contingency. An external memory pod can also be added for redundancy.
Real time clock	All sensor data is logged with timestamp for accurate timing and synchronized sensor polling
Extremely low power consumption	Power monitor for battery and relay control for each external sensor. Optional auto fuses.
Deep sleep function	Logger can be set to deep sleep for long-term logging. Deep sleep wakeup, on time, on calendar or external sensors input available.
Packed data transmission	All Acoustic Modem and/or Transponder comms are packed for increased acoustic data transmission using the proprietary RTS Pallando data protocol.
Acoustic communication	Available through Acoustic Modem or HiPAP transceiver (APOS)
Software	SDM Studio (GUI) can be run on a standard laptop. Easy setup and offset/C-O programming. All offsets are stored in log file topside and in subsea logger. Application provides data playback, simulator test and data output for external logging and visualization software.

