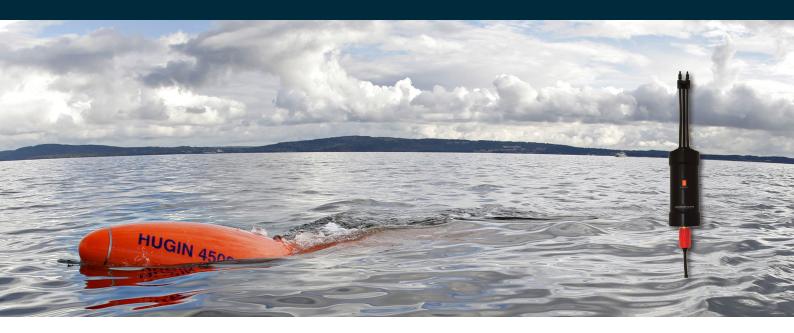
## MBR 144 SUBMERSIBLE





## MARITIME BROADBAND RADIO

The Maritime Broadband Radio is a smart antenna designed for use in maritime applications where digital high-speed reliable communication and data transfer are crucial for efficient and safe operations. The MBR 144 Submersible allows for resilient and long-range data exchange for surfaced subsea vehicles. The MBR 144 Submersible is certified for 1000m depth, and has integrated antennas. The sole connection to the MBR 144 Submersible is one connector for power and Ethernet.

## TECHNICAL SPECIFICATIONS

## **PERFORMANCE**

Range

Operational range 1)

User data

0.7 to 16.5 Mbps

Antenna coverage Omni-directional

RF specifications Frequency band 2)

4900 MHz to 5900 MHz

360 degrees azimuth

20 MHz Channel bandwidth Tx power Up to 2 W Antenna gain 7 dBi **EIRP** Max 40 dBm Modulation **GMSK** 

Internal antenna elements

**INTERFACES** 

Fthernet/LAN

WEIGHTS AND DIMENSIONS

2.3 kg (0.8 kg submerged) MBR Unit 548 x 98 x 98 mm

POWER

Supply voltage 24 V DC 25 W Max. power consumption 7 W

**ENVIRONMENTAL SPECIFICATIONS** 

Operating temperature range -30 °C to +55 °C Operating humidity 20 to 100 % RH Storage humidity (recommended) 20 to 70 % RH Pressure rating 1000 m

STANDARDS AND REGULATIONS

Electromagnetic compatibility

Compliance to EMCD, immunity/emission

IEC 60945/EN 60945

**Product safety** Compliance to LVD,

IEC 60950/EN 60950 standard used

Specifications subject to change without any further notice.

<sup>2)</sup> Configurable range for the single 20 MHz channel

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1) Operational range is dependent on antenna placement and height

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