

MobIUS-R



MobIUS (MOBile Inertial Underwater System) has been designed to meet the demands of subsea positioning offshore in the 21st century. Heading, Attitude, Depth, Speed of Sound, Acoustic Telemetry and Ranging are all available in a slim, compact, rugged, ROV friendly package.

With 24 hours battery power and options including MiniTXT LED display, positive stab indicator, remote power switch on/off, internal data logging and full INS positioning this single unit provides accurate positioning, heading and inclination for most tasks ranging from shallow water installations to deepwater metrology.

The system is extremely flexible and is available with CDL Datum (Digital Acoustic Transponder & Underwater Modem) or with adaptor plate to suit the acoustic ranging and telemetry transponder of your choice.



Features:

- Integrated solution
- Small footprint
- Ring Laser Gyro Technology – no moving parts
- 24 hour battery life on single charge
- Fast North seeking
- Ranging and telemetry
- Speed of sound measurement: Valeport miniSVS

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Product Specification:

AHRS:

Heading Accuracy* 0.169deg
Pitch and Roll 0.028deg

Power Requirements:

Voltage 24V DC
Power 30W

Data:

Serial Outputs** 4 software configurable serial ports
Serial protocol options RS 232, 422 and 485

Weight and Dimensions (3000m Unit):

Subsea unit
Weight in Air
Weight in Water

With adaptor plate

62cm x 20cm dia
52 kg
38 kg

With Datum

83cm x 20cm dia
56 kg
40 kg

DATUM:

Range 3km approx
Data Rates 100 or 480 bits per second
Bandwidth Broadband operation 16Khz to 30Khz
Modulation Direct sequence spread spectrum / OFDM

Depth Rating:

3000m (standard)
4000m
6000m

Options:

DATUM modem
MiniTXT LED display
Full INS capability
Direct data transmission and power from ROV
Internal data logging
Depth sensor
SV sensor
Battery power on/off by ROV lights
ROV grab handles
Positive male stab

All stated accuracies are dynamic and 1 Sigma RMS

*sec(lat)

** User defined options available on request



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