

# MobIUS-F



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
- Fibre Optic Gyro Technology – no moving parts
- 24hour 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\* 0.5deg  
Pitch and Roll 0.1deg

### Power Requirements:

Voltage 24V DC  
Power 16W

### Data:

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

### Weight and Dimensions (3000m Unit): With adaptor plate

Subsea unit 52cm x 20cm dia  
Weight in Air 40 kg  
Weight in Water 25 kg

### With Datum

73cm x 20cm dia  
44 kg  
27 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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