ISM3D HEADING, PITCH & ROLL SENSOR



Impact Subsea are proud to present the ground breaking ISM3D family of Underwater Attitude and Heading Reference System (AHRS) Sensors.

Highly Robust, compact and lightweight, the ISM3D is ideal for ROV, AUV and other underwater Heading, Pitch and Roll applications.

With a selectable Inertial Mode, the ISM3D Heading is highly resilient against temporary magnetic interference.

The ISM3D utilises MEMS based Accelerometers, Angular Rate Gyroscopes and Magnetometers.

The outputs from each sensor are processed by an advanced fusion algorithm to provide highly stable and accurate Heading, Pitch and Roll.

FEATURES BENEFITS

| Heading | Provides Heading to ±0.5° of Local Magnetic North. |
|--------------------|---|
| Pitch & Roll | Provided to ±0.07° accuracy. |
| Titanium Housing | Robust & depth rated to 6,000m. |
| Acetal Housing* | Low weight. |
| seaView Software | Configure sensor, view & log data. |
| Emulate Any Device | Direct replacement of existing equipment. |

Provided in a highly robust Titanium or Black Acetal housing. Alternative OEM configurations are available upon request.

APPLICATIONS

Auto Heading Motion Reference Unit (MRU) ROV & AUV Heading & Attitude Equipment Deployment Monitoring Replacement for Flux Gate Compass Replacement for Magnetically Slaved Gyro



ImpactSubsec

ISM3D

HEADING, PITCH & ROLL SENSOR



HEADING

ATTITUDE

Accuracy Resolution

Pitch

Accuracy

Resolution

Roll

± 0.5° of Local Magnetic North 0.1°

PHYSICAL

Depth Rating

Temperature

Connector

Weight Air/Fresh water 6,000m (Titanium) 1,000m (Acetal)

-10 to 50°C Operation -20 to 70°C Storage

Subconn MCBH8M-SS Other options available

0.33/0.225kg (Titanium) 0.20/0.10kg (Acetal)

COMMS & POWER

± 90°

+ 180°

0.07°

0.01°

| Digital | RS232 & RS485 |
|---------------|-------------------------|
| Protocol | 4800 to 115,200 baud |
| Data | Continuous or on demand |
| Data Rate | Up to 250Hz |
| Input Voltage | 7 to 32V DC |
| Power | 29mA @ 24V DC |

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Dimensions given in mm.

* Optional

Specifications subject to change in line with
product enhancements.
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