Impact**Subsea**

Innovative Underwater Products

ISM3D

UNDERWATER AHRS
PROVIDING HEADING, PITCH & ROLL

WWW.MINDGCISUDSEC WWW.MINDGCISUDSEC S/N BEPTH GOOM WADDEL ISNAD S/N WWW.MINDGCISUDSECA.COM WADDEL ISNAD S/N WADDEL ISNAD WAD

FEATURES & BENEFITS

HEADING

Provides Heading to $\pm 1^{\circ}$ of Local Magnetic North.

> PITCH & ROLL

Provided to ±0.07° accuracy.

TITANIUM HOUSING

Robust & depth rated to 6,000m.

ACETAL HOUSING

Low weight & depth rated to 1,000m.

SEMULATE ANY DEVICE

Direct replacement of existing equipment.

SEAVIEW SOFTWARE

Configure sensor, view & log data.



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.

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

*Optional





ISM3D

UNDERWATER AHRS PROVIDING HEADING, PITCH & ROLL



HEADING

Accuracy ± 1° of Local Magnetic North

Resolution 0.1°

ATTITUDE

Pitch $\pm 90^{\circ}$ Roll $\pm 180^{\circ}$ Accuracy $\pm 0.07^{\circ}$ Resolution 0.01°

COMMS & POWER

Digital RS232 & RS485

Protocol 4800 to 115,200 baud

Data Continuous or on demand

Data Range Up to 250Hz Input Voltage 7 to 32V DC

Power 45mA @ 24V DC

PHYSICAL

Depth Rating 6,000m (Titanium)

1,000m (Acetal)

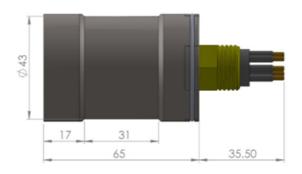
Temperature -10 to 50°C Operating

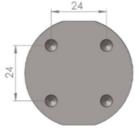
-20 to 70°C Storage

Connector Subconn MCBH8M-SS

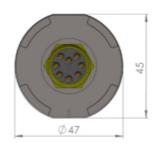
Other options available

Weight 0.33/0.225kg (Titanium)
Air/Fresh water 0.20/0.10kg (Acetal)









Dimensions given in mm.