

ISD4000



Impact Subsea are proud to present the ground breaking ISD4000 family of depth sensors. Compact, lightweight and highly robust, the ISD4000 is ideal for ROV, AUV and other underwater Depth and Temperature measurement applications with optional integrated Attitude and Heading Reference System (AHRS).

The ISD4000 utilises the latest in sensing technology to provide a Depth accuracy of 0.01% FS and Temperature accuracy to 0.01°C. With an optional integrated AHRS, the ISD4000 provides a clear understanding of the position of the sensor at all times - ideal for asset deployment monitoring.

An optional ISD4000 Depth Sensor can be added to the system to automatically record depth of each check point. All readings are shown visually in the seaView software package. A final report of all readings taken is automatically generated – ensuring all data is accurately recorded.

Provided in a highly robust Titanium or Black Acetal housing. The sensor can be provided without the AHRS. Alternative OEM configurations are available upon request.

Specifications

Product	ISD 4000 Underwater depth & temperature sensor
Country of origin	UK
Manufacturer	Impact Subsea

Depth

Accuracy	± 0.01% Full Scale
Resolution	0.001% Full Scale
Pressure range	10, 30, 50, 100, 300, 400 or 600 Bar
Type	Temperature Compensated Piezo-Resistive

Physical

Depth rating	6,000m (Titanium) 500m (Acetal)
Temperature	5 to 35°C Calibrated -10 to 60°C Operation -20 to 70°C Storage
Connector	Subconn MCBH8M-SS Other options available
Weight air/fresh water	0.42/0.28kg (Titanium) 0.20/0.10kg (Acetal)
Data rate	12 Mbit/s maximum
Input voltage	9 to 36V DC
Power (No Altitude) (With Altitude)	25mA @ 24V DC

Comms & power

Digital	RS232, RS485
Protocol	4800 to 115,200 baud
Data	Continuous or On Demand
Data Rate	Up to 100Hz
Input voltage	7 to 32V DC
Power	32mA @ 24V DC

Attitude

Pitch	± 90°
Roll	± 180°
Accuracy	0.2°
Resolution	0.1°

Temperature

Accuracy	0.1°C
Resolution	0.001°C

Heading

Accuracy	± 1°
Resolution	0.1°