

ISD4000 Depth & Temperature Sensor



Impact Subsea is 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 & Heading Reference System (AHRS).

The ISD4000 utilises the latest in sensing technology to provide a depth accuracy of $\pm 0.01\%$ 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.

The ISD4000 is provided in a highly robust Titanium or Black Acetal housing. The unit can be provided without the AHRS. Alternative OEM configurations are available upon request.

Features	Benefits
$\pm 0.01\%$ FS Depth	Survey-grade depth sensor
0.01°C accuracy	Survey-grade temperature sensor
Heading*	Provides heading to $\pm 0.5^{\circ}$ of local magnetic north
Pitch & roll*	Pitch and roll readings, provided to 0.2° accuracy
Maintenance free	Non-block pressure port
Titanium housing	Robust and long lasting

Key Features

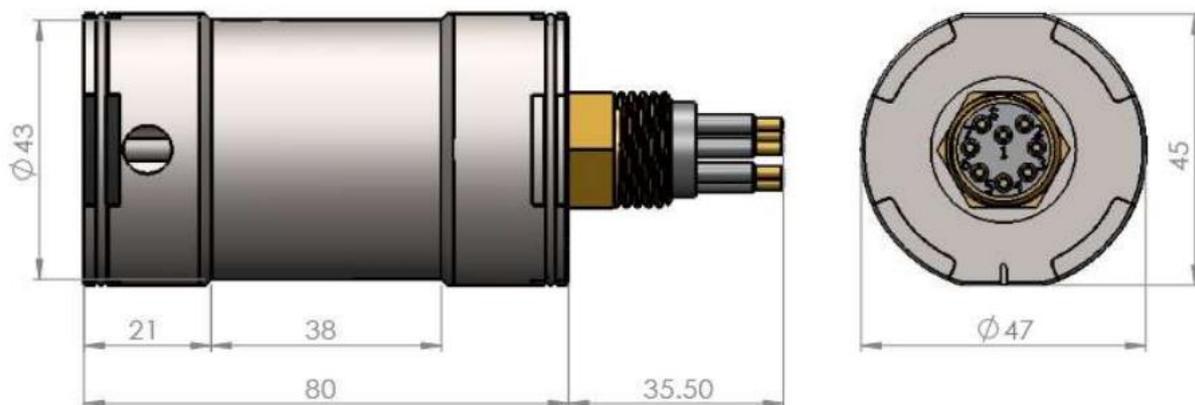
- $\pm 0.01\%$ FS Depth
- 0.01°C accuracy
- Heading*
- Pitch & roll*
- Maintenance free
- Titanium housing

Benefits

- Survey grade depth sensor
- Survey grade temperature sensor
- Provides heading to $\pm 0.5^\circ$ of local magnetic north
- Pitch and Roll readings, provided to 0.2° accuracy
- Non-block pressure port
- Robust and long lasting

Applications

- ROV & AUV Depth Sensor
- Echosounder Surveys
- Pipeline Surveys
- Real Time Depth
- Temperature Measurement
- Motion Reference
- Asset Deployment



Shown above is the standard configuration of the **ISD4000** Depth and Temperature sensor. Other housing and connector options are available. All dimensions are in mm.

Specifications

Depth

Accuracy $\pm 0.01\%$ Full Scale

Resolution 0.001% Full Scale

Range 10, 30, 50, 100, 300, 400 or 600 Bar

Type Temperature Compensated Piezo-Resistive

Communications & Power

Digital	RS232 & RS485
Protocol	300 to 115,200 baud
Data	Continuous or on demand
Data rate	Up to 100Hz
Input voltage	7 to 32V DC
Power (No Altitude)	<30mA @ 24V DC

Heading*

Accuracy	± 0.5° of Local Magnetic North
Resolution	0.1°

Pitch & Roll*

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

Temperature

Accuracy	0.1 °C
Resolution	0.001 °C

Physical

Weight (Air / Fresh Water)	0.42/0.28kg (Titanium) 0.20/0.10kg (Acetal)
Depth Rating	6,000m (Titanium) 500m (Acetal)
Temperature	-5 to 25° Calibrated -10 to 60° Operation -20 to 70° Storage
Connector	Subconn MCBH8M-SS other options available

Specifications subject to change in line with product enhancements.

* Option