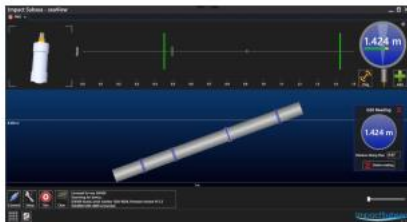


# ISFMD - Flooded Member Detection System



Impact Subsea is proud to present the ground-breaking ISFMD: the most advanced and reliable acoustic Flooded Member Detection system available today.

Suitable for Diver or ROV use, the ISFMD utilises a broadband composite transducer probe together with an advanced digital acoustic engine to provide the highest level of accuracy and reliability in readings.

Through the use of advanced acoustics, the ISFMD system removes the logistical, health and safety issues commonly associated with gamma ray based Flooded Member Detection systems.

An optional ISD4000 Depth Sensor can be added to the system to automatically record depth of each check point.

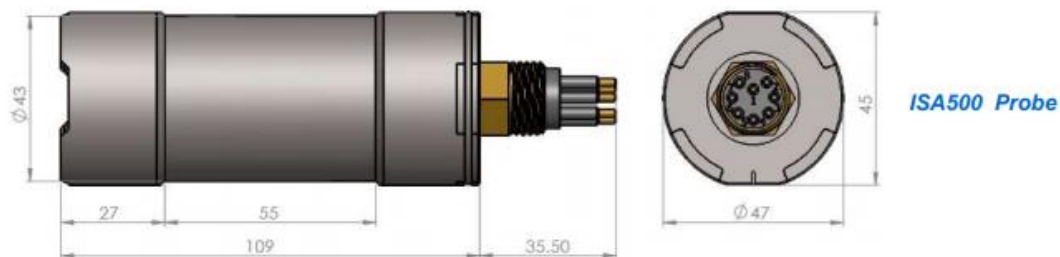
All readings are shown visually in the seaView software package. A final report of all readings taken is automatically generated – ensuring all data is accurately recorded.

Features	Benefits
seaView Software	Visualise all readings & generate a survey report
Titanium Probe	Highly robust and long lasting sensor probe
Integrated AHRS	Understand exact orientation of probe at time of contact reading
Multi-Echo Output	Visualise return if flooded member is detected
Depth	Using the ISD4000, log the depth & temperature at point of reading

## System Components

ISA500 Probe  
 seaView FMD App  
 ISD4000 Depth Sensor\*  
 100 or 200m Cable\*  
 Topside Power Supply\*  
 Probe Holder\*

\*Optional



## Specifications

### Acoustic

Frequency	500kHz
Range	0.1 to 30m (Maximum range dependant on seabed member type)
Resolution	1 mm
Beam angle	6° conical in water
Signalling	Monotonic
Pulse length	Automatic

### Communications & Power

Digital	RS232 & RS485
Protocol	300 to 115,200 baud
Analogue	0 to 5V DC, 0 to 10V DC or 4-20mA
Data	Continuous or on demand
Data rate	Up to 10Hz
Input voltage	9 to 36V DC
Power (No Altitude)	25mA @ 24V DC
Power (With Altitude)*	51mA @ 24V DC

### Heading

Accuracy	± 1°
Resolution	0.1°

### Attitude

Pitch  $\pm 90^\circ$

Roll  $\pm 180^\circ$

Accuracy  $0.2^\circ$

Resolution  $0.1^\circ$

### Probe Physical

Weight (air/fresh water) 0.5/0.325kg

Depth rating 6000m (Titanium)

Temperature -10 to 40° operating  
-20 to 50° storage

Connector Subconn MCBH8M-SS  
other options available

Specifications subject to change in line with product enhancements.