Dual miniIPS

The Dual miniIPS is a development of the industry standard miniIPS precision underwater pressure sensor. Two 0.01% accuracy, independent pressure sensors are mounted in the front face of the instrument offering redundant observations and potentially, vessel time saving where multiple observation sessions can be carried out in a single sortie.

Titanium housing and a choice of pressure ranges make it a cost effective solution for offshore engineers, vehicle pilots, and other operators who require highly accurate and redundant depth information in real time.

Pressure Sensor

The pressure sensors fitted to the miniIPS are temperature compensated piezo-resistive sensors, which deliver the performance previously only available from a resonant quartz sensor at a more cost-effective price.

It also brings the added advantages of long-term stability, allowing longer intervals between calibration, and a smaller and more robust construction; complex and vulnerable arrangements of diaphragms and oil filled capillaries & reservoirs are therefore no longer necessary.

Type:	Temperature compensated piezo-resistive
Range:	10, 30, 50, 100, 300 or 600 Bar
Accuracy:	±0.01% FS
Resolution:	0.001% FS

Data Acquisition

Sampling:	Continuous or data on demand.
Data Rate:	1, 2, 4 or 8Hz continuous
Units:	Secondary calibration function allows conversion of dBar pressure units into metres or feet
Tare:	Tare Function allows correction for atmospheric offset. Each sensor has its own correction.

Communications

Output:	RS232 & RS485 fitted as standard
Protocol:	4800 to 115200 baud, (8, 1, N)
Format:	Proprietary NMEA string

Physical

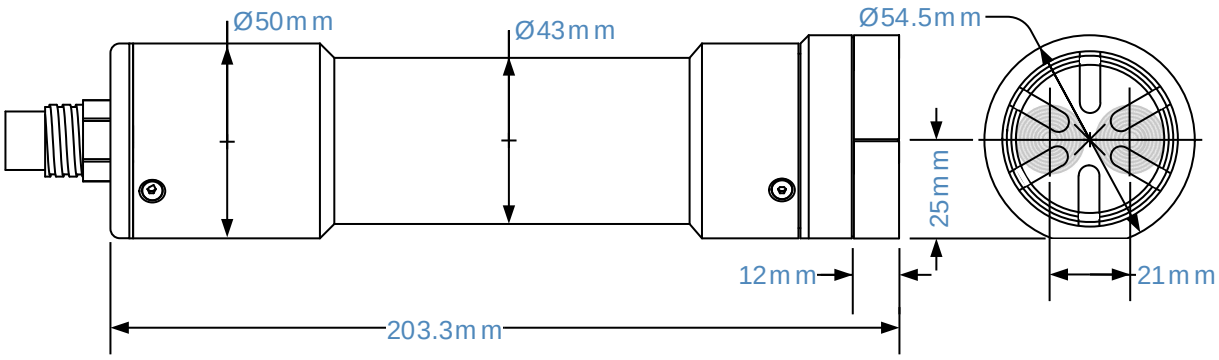
Housing:	Titanium (6000m rated)
Size:	54.5mmØ x 203.3mm (excluding connector)
Weight:	<1.5kg (air)
Connector:	SubConn MCBH6F (titanium)

Power Requirements

Input:	9 – 30V DC (isolated)
Power:	less than 0.4W (40mA @ 12V DC)

Ordering

0760008-XX	Dual miniIPS fitted with two Pressure Sensors Supplied with: • Interface lead • Operating manual and transit case
Note:	XX denotes pressure transducer range. Select from 10, 30, 50, 100, 300, or 600 Bar



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