



miniIPS



The miniIPS is a precision underwater pressure sensor; 0.01% accuracy, a 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 depth information in real time. The miniIPS is also supplied as an OEM for sensor integration to other manufacturers.

The miniIPS is compatible with Valeport's MIDAS Bathypack and BathyLog software, allowing the depth data to be continually updated for Density variations in the water column.

Pressure Sensor

The pressure sensor fitted to the miniIPS is a temperature compensated piezo-resistive sensor, which delivers 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.

The miniIPS can be re-calibrated by customers using a Class A deadweight tester.

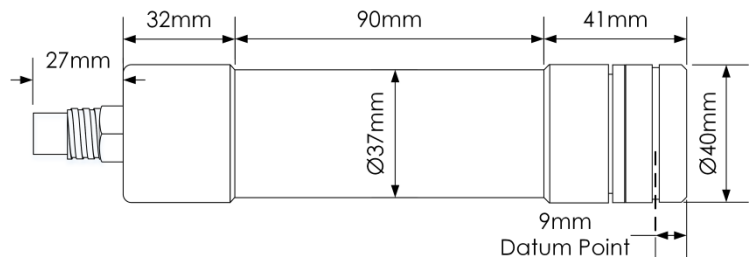
Type:	Temperature compensated piezo-resistive
Range:	10, 30, 50, 100, 300 or 600 Bar
Accuracy:	±0.01% FS
Resolution:	0.001% FS

Data Acquisition

Sampling:	Continuous, burst average or data on demand.
Data Rate:	1, 2, 4, 8 or 16Hz continuous, down to 1 sample per day bursting
Units:	Secondary calibration function allows conversion of dBar pressure units into metres or feet, or other required units
Tare:	Tare Function allows correction for atmospheric offset

Physical

Housing:	Titanium (6000m rated)
Size:	40mmØ x 185mm (including connector)
Weight:	<1kg (air)
Connector:	SubConn MCBH6F (titanium) (other connector available on request)
Shipping:	36 x 29 x 16cm, 2kg



Communications

Output:	RS232 & RS485 fitted as standard
Protocol:	4800 to 115200 baud, (8,1,N)
Format:	ASCII text Data format compatible with Valeport's BathyLog software, allowing real time depth correction using Density Profiles

Power Requirements

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

Ordering

0760001-XX	miniIPS Fitted with: • 0.01% piezo-resistive sensor Supplied with: - Interface lead - Operating manual and transit case
Note:	XX denotes pressure transducer range. Select from 10, 30, 50, 100, 300 or 600bar
0760005-XX	miniIPS – OEM remote sensor Fitted with: • 0.01% piezo-resistive sensor • OEM remote sensor with PCB • Operating manual and transit case
Note:	XX denotes pressure transducer range. Select from 10, 30, 50, 100, 300 or 600bar
0760002	Calibration adapter to allow users to perform their own calibration against a deadweight tester