





# 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.

# DATA SHEET

## **Product Details**





**Valeport Limited** St. Peter's Quay, Totnes, Devon TQ9 5EW United Kingdon

Telephone: +44 (0) 1803 869292 Email: sales@valeport.co.uk www.valeport.co.uk



### **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.

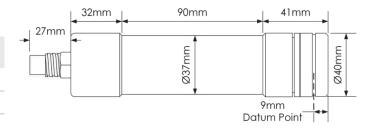
The miniIPS can be re-calibrated by customers using a Class A deadweight tester.

Туре	Temperature compensated piezo-resistive
Range	10, 20, 30, 50, 100, 200, 300, 400 or 600 Bar
Accuracy	±0.01% FS
Resolution	0.001% FS

Continuous, burst average or data on demand

1, 2, 4, 8 or 16Hz continuous, down to 1 sample per day bursting

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, 20, 30, 50, 100, 200, 300, 400 or 600 Bar
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, 20, 30, 50, 100, 200, 300, 400 or 600 Bar



### Units Secondary calibration function allows conversion of dBar

Sampling

Data Rate

**Data Acquisition** 

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

Shipping	36 x 29 x 16cm, 24

Communications	
Output	RS232 & RS485 fitted as standard
Protocol	4800 - 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 R	equirements
Input	9 – 30V DC (isolated)
Power	less than 0.4W (40mA @ 12V DC)

## Datasheet Reference: miniIPS | April 2020

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