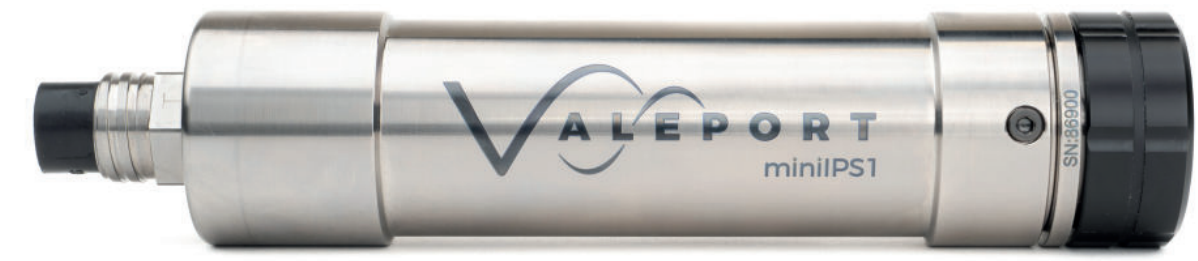

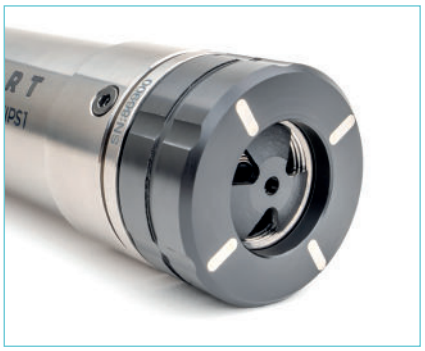

miniIPS1

The miniIPS1 is an evolutionary upgrade over the miniIPS, presenting industry proven functionality that is equally reliable and trusted. The miniIPS1 now benefits from improved power consumption, isolated power and comms.

The miniIPS1 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 miniIPS1 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

ECHO SOUNDERS AND BATHYMETRY

BATHYLOG & DATALOG X2 SOFTWARE

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

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

VALEPORT

Pressure Sensor

The pressure sensor fitted to the miniIPS1 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 miniIPS1 can be re-calibrated by customers using a Class A deadweight tester.

Type	Temperature compensated piezo-resistive
Range	10, 20, 30, 50, 100, 200, 300, 400 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 - 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 – 28V DC (isolated)
Power	less than 0.4W (40mA @ 12V DC)

Ordering

0760023-XX	miniIPS1 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