

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



**ECHO SOUNDERS
AND BATHYMETRY**



**BATHYLOG & DATALOG
X2 SOFTWARE**

TAE KWANG ELECTRONICS CORPORATION
5TH FLR., K-BLDG., 3, SANGAM-RO 41GIL,
GANGDONG-GU, SEOUL 05307, KOREA

PHONE : 02 479 2703
FAX : 02 479 2705
e-mail : taekwang@tkec.co.kr
Website: www.tkec.co.kr



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

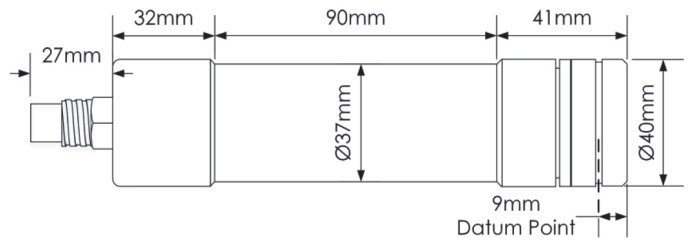
Ordering

0760001-XX	miniIPS Fitted with: <ul style="list-style-type: none">• 0.01% piezo-resistive sensor Supplied with: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 0.01% piezo-resistive sensor• OEM remote sensor with PCB Supplied with: <ul style="list-style-type: none">• Operating manual and transit case
-------------------	--

Note XX denotes pressure transducer range. Select from 10, 20, 30, 50, 100, 200, 300, 400 or 600 Bar



Datasheet Reference: miniIPS | April 2020

As part of our policy of continuing development, Valeport Ltd. reserve the right to alter at any time, without notice, all prices, specifications, designs and conditions of sale of all equipment - Valeport Ltd © 2020

