



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

The pressure sensor fitted to the miniIPS is a revolutionary 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.

Specifications

Type	Temperature compensated piezo-resistive
Range	10, 30, 100, 300 or 600 bar
Accuracy	±0,01%FS
Resolution	0,001% FS
Materials	Titanium (6,000 m Rated)
Measurements	40mmØ x 185mm (including connector)
Weight	Subconn MCBH6F (titanium)
Connector	RS282 & RS485 fitted as standard
Output	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
Protocol	4800 to 115200 baud (8,1,N)
Sampling	Continuous, burst average or data on demand.
Data Rate	1, 2, 4 or 8Hz 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.
Input	9 – 30vDC
Power	Less than 0,4W