



# miniIPS2e

## Intelligent Pressure Sensor

### Ethernet

The miniIPS2e is a precision underwater pressure sensor with an accuracy of 0.01%FS and can provide a data rate of up-to 100Hz. Key to this design is the unique interchangeable pressure module that allows customers to change pressure transducers for maximising operationally specific depth requirements. This innovative pressure module, with integral calibration, can be changed in a couple of minutes without opening the instrument and is available in 0.01% accuracy, 10, 20, 30, 50, 100, 200, 300, 400 and 600 BAR variants.

This is a cost-effective solution for offshore engineers, vehicle pilots, and other operators who require highly accurate depth information in real time, combined with the knowledge that testing to the standard ISO 13628-6:2006 (Q2 Levels) for vibration and shock has been attained.

## DATA SHEET

### Product Details



BATHYMETRY



CONFIGURE  
SOFTWARE



ETHERNET ENABLED

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### Interchangeable Pressure Sensor Module

The pressure sensor module fitted to the miniIPS2e is a temperature compensated piezo-resistive sensor, which delivers the performance previously only available from a resonant quartz sensor. 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.

<b>Type</b>	Temperature compensated piezo-resistive
<b>Range</b>	10, 20, 30, 50, 100, 200, 300, 400 or 600 BAR
<b>Accuracy</b>	±0.01% FS
<b>Resolution</b>	0.001% FS

### Data Acquisition

<b>Sampling</b>	Continuous, burst average or data on demand
<b>Data Rate</b>	1, 2, 4, 8, 16, 32, 64 or 100Hz in continuous mode and as low as 1 sample per day in burst mode
<b>Units</b>	Secondary calibration function allows conversion of dBAR pressure to the required units, such as BAR, metres or feet
<b>Tare</b>	Tare function allows correction for atmospheric pressure

### Physical

<b>Housing</b>	Titanium (6000m rated)
<b>Size</b>	45.2mmØ x 217mm (including connector)
<b>Vibration &amp; Shock</b>	Tested to standard ISO 13628-6:2006 (Q2 Levels)
<b>Weight</b>	0.75kg (air)
<b>Connector</b>	SubConn type DBH13F (titanium)
<b>Shipping</b>	42 x 32 x 22cm, 3kg

### Communications

<b>Output</b>	Ethernet
<b>Protocol</b>	4800 to 115200 baud, (8,1,N)

### Power Requirements

<b>Input</b>	9 – 28V DC (isolated)
<b>Power</b>	< 1.5W (12V x 125mA)

### Software

Valeport Configure has been introduced to simplify the configuration of instruments prior to deployment. It can be used instead of DataLog X2.

### Ordering

<b>0760013-XXX</b>	(where XXX is the pressure rating of transducer in BAR) miniIPS2e Fitted with: · 0.01% piezo-resistive sensor Supplied with: · Interface lead · Operating manual and transit case (standard transit case will also hold up to three extra pressure modules)
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<b>PTSA-XXX</b>	Additional interchangeable pressure modules
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<b>Note</b>	XXX denotes pressure transducer range. Select from 10, 20, 30, 40, 50, 100, 200, 300, 400 or 600 BAR
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#### Datasheet Reference: miniIPS2 standard Ethernet Enabled | April 2022

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