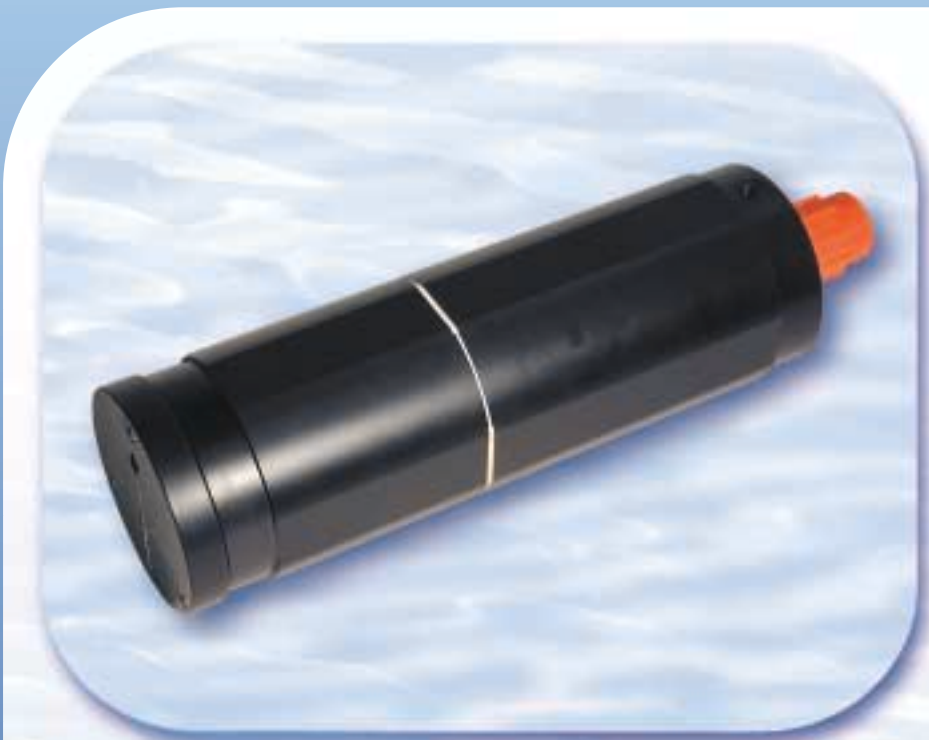


Intelligent Pressure Sensor

Modus IPS



A digital pressure sensor, designed to provide high accuracy pressure data for ROVs and underwater positioning applications

SPECIFICATION

Sensors

Resonant Quartz Type

Range: 65, 100, 200 or 500 psi

Accuracy: $\pm 0.01\%$ FS

Resolution: 0.001% frequency. Note that frequency resolution does NOT equal pressure resolution, which depends on sample rate

Rate	1Hz	2Hz	4Hz	8Hz
Res. (%FS)	0.001	0.0015	0.005	0.015

Strain Gauge Type

Range: 100, 200, or 1000 dBar

Accuracy: $\pm 0.04\%$ FS

Resolution: 0.005% FS

Optional Temperature Sensor

Range: -5°C to $+35^{\circ}\text{C}$

Accuracy: $\pm 0.005^{\circ}\text{C}$

Resolution: 0.001°C

Physical

Housing: Acetal (1000m rated)

Size: 88mm \varnothing x 275mm (0.01%)

88mm \varnothing x 210mm (0.04%)

Weight: 1.5kg (air), 0.1kg (water)

Communications

Output: RS232, RS422, RS485 fitted as standard

Protocol: 2400 to 115200 baud, 8 data, 1 stop, no parity

Units: dBar, metres or feet

Data Acquisition

Sampling: Continuous, burst, profile or data on demand.

Output Rate: 1, 2, 4 or 8Hz continuous, down to 1 sample per day bursting

Power Requirements

Input: 9 - 30VDC

Power: less than 0.6W

FEATURES

- Resonant quartz pressure sensor (0.01%FS accuracy)
- Optional Temperature sensor
- RS232, RS422 & RS485 outputs
- Programmable Sampling
- Optional strain gauge version
- Uses DataLog 400 software

DESCRIPTION

The Modus IPS is fitted with a high accuracy resonant quartz pressure sensor, data from which is sampled at up to 8Hz and digitized to give an ASCII text output of calibrated pressure data.

The IPS is part of Valeport's range of "Modus" products, which share common features of a choice of data acquisition modes, output protocols and update rates. They can be used as stand alone instruments with the DataLog 400 software package provided, or can easily be interfaced to a wide variety of other systems such as ROV's or bathymetry packages.

APPLICATIONS

- Dredging operations
- Bathymetric Surveys
- Underwater positioning
- ROV Use

ORDERING

0440001 Modus IPS fitted with 0.01% resonant quartz sensor (specify range). Supplied with DataLog 400 software, interface lead, operating manual and transit case

0440002 Modus IPS fitted with 0.04% strain gauge sensor (specify range). Supplied with DataLog 400 software, interface lead, operating manual and transit case

0440003 Optional Temperature Sensor

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