



## ultraP – OEM Pressure Sensor



Ultra-fast, ultra-compact, ultra-dependable.  
The next generation of pressure sensor.

Redesigned from the connector up, the ultraP offers a truly smart and exchangeable pressure sensor without compromise.

Ideally suited to system integrators and OEM applications, the ultraP is a truly exchangeable pressure sensor with all critical electronics contained within the housing. Select the depth rating that suits your operational depth to maintain the best possible accuracy.

The pressure sensor fitted to the ultraP 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, oil filled capillaries and reservoirs are therefore no longer necessary.



### Performance

Range:	10, 30, 50, 100, 300, 400 or 600 Bar
Accuracy:	±0.01% FS
Resolution:	0.001% FS

### Data Acquisition

Sampling:	Continuous or data on demand Noise reduction mode
Data Rate:	1, 2, 4, 8 or 16Hz continuous
Units:	dBar
Tare:	Tare Function corrects for atmospheric offset

### Physical

Housing:	Titanium (6000m rated)
Size:	40mmØ x 90mm (excluding connector)
Weight:	<0.3kg (in air)
Connector:	SubConn MCBH6F (Titanium)

### Communications

Output:	RS485
Protocol:	4800 to 115200 baud, (8,1,N)
Format:	Proprietary NMEA data string

### Power Requirements

Input:	5V DC (regulated ±3%)
Power:	less than 0.4W (40mA @ 5V DC)

### Ordering

0760009-XX	ultraP
0760002	Adapter to allow users to perform their own calibration against a class A deadweight tester.

Note:	XX denotes pressure transducer range. Select from 10, 50, 100, 300 or 600 Bar All systems supplied with a manual no cables are supplied contact Valeport for options
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