

Bathy 2



The Bathy2 is an enhancement of the MIDAS Bathypack offering offering Valeport's proven construction survey industry standard sensors to generate precision Sound Velocity and Density profiles for highly accurate depth and height data.

Key features include interchangeable pressure sensors to maximise accuracy for depth application, external input from a Digiquartz pressure transducer and separate output for INS or other use.

Vibration & Shock tested to ISO 13628-6:2006 (Q2 levels).

Specifications

Product	Bathy2
Country of origin	UK
Manufacturer	Valeport Limited

Conductivity

Type	Valeport Inductive Cell	Range	0 - 80 mS/cm
Resolution	0.002 mS/cm	Accuracy	±0.01 mS/cm

Temperature

Type	Fast Response PRT with guard	Range	-5 – +35°C
Accuracy	±0.005°C	Resolution	0.002°C

Communications

Standard	RS232/RS485	Baud Rate	2400 - 230400
Option	Ethernet, in place of RS232/RS485	Protocol	8 data bits, 1 stop bit, No parity, No flow control

Physical

Material	Titanium, polyurethane and polycarbonate	Depth Rating	600 bar
Instrument Size	Ø110 mm x 566 mm long	Weight	10 kg

Calculations

Density	TEOS-10 Equation of state of seawater	Salinity	PSS78 practical salinity scale
Depth	UNESCO Pressure/Depth Relationship		

Altimeter

Frequency	500 kHz	Resolution	1 mm
Range	0 - 100 m (6000 m depth rating)		

Sound Velocity

Range	1375 – 1900 m/s	Accuracy	±0.02 m/s
Resolution	0.001 m/s		

Electrical

External Power	12-28 V DC	Depth Rating	600 bar
Connectors	SubConn MCBH10F as standard for power in/comms plus MCBH6F for Altimeter input. MCBH4F for INS output, MCBH5F for DigiQuartz input and	Current	Base system - 195 mA Base system + DigiQuartz - 225 mA Base system + Altimeter - 320- 370 mA Base system + DigiQuartz + Altimeter - 410 mA