

Digital Precision Altimeters

PA200 and PA500

Features

- Analogue only outputs
- Digital only output
- Simultaneous analogue and digital outputs
- Noise immunity
- Can be field reconfigured for different applications
- Free-running outputs
- Interrogated outputs
- Low operating voltage options
- 4000 metre standard depth rating

Applications

- ROV and AUV auto-altitude and under-ice measurement
- Integration to CTD & oceanographic sensor packages
- Low-cost hydrographic surveying of rivers and canals
- Integration to bathymetric packages
- Touchdown monitoring of subsea structures
- Wave height measurement
- Monitoring of scouring around bridge supports



Tritech PA200 and PA500 Digital Precision Altimeters are based on the same high performance electronics found in the proven, industry standard SeaKing sonar and profiler systems.

The range of compact Tritech PA200 and PA500 Digital Precision Altimeters provide exceptionally accurate height off seabed and subsea distance measurements.

Full digital synthesis of transmit and receive frequencies, together with greatly improved input dynamic range, offer unsurpassed levels of performance from a compact unit.

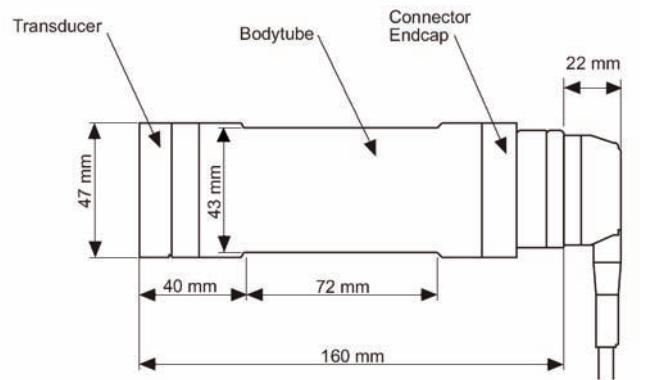
The units may be supplied with simultaneous analogue and digital outputs allowing them to be interfaced to a wide range of PC devices, data loggers, ROV telemetry systems and multiplexers.

OEM configurations including low magnetic signature, rigid polyurethane housings or right-angled heads are available on request.

Control of the altimeters may be performed in many ways including :

- Direct from a PC running DOS
- Direct from a PC running Windows
- Direct from a suitable control system
- Part of a multidrop network

Specifications


All measurements in mm

PA200-20

Operating frequency	200 kHz	500 kHz
Beamwidth	20° Conical	6° Conical
Operating range	1 to 100 metres 0.7 to 50 metres	0.3 to 50 metres 0.1 to 10 metres
Standard power supply	24 VDC @ 80 mA, or 12 VDC @ 160 mA	
Standard analogue output	0 to 10 VDC (24 VDC units only), or 0 to 5 VDC	
Digital resolution	1mm on all ranges	
Analogue resolution	0.25% of range	
Data communication options	Serial RS232, or Serial RS485	
Output modes	Free running, or Interrogated, or multidrop network	
Serial output format	ASCII, 9600, 1, 8, n, 1	
Length	160mm	
Diameter	47mm	
Standard depth rating (stainless steel body)	4,000 m	
Optional depth ratings	700m 2,000m and 6,800m	
Weight in air	1.1 kg	
Weight in water	0.8 kg	
Operating temperature range	-10 to +40 °C	
Dry storage temperature range	-20 to +70 °C	

PA500-6

All specifications are subject to change in line with Tritech's policy of continual product development.

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Tritech International Limited
Peregrine Road, Westhill Business Park, Aberdeen,
AB32 6JL, United Kingdom

Marketed by:



T: +44 (0)1224 744111
F: +44 (0)1224 741771
Email: sales@tritech.co.uk