



# Digital Precision Altimeters

PA 200 and PA500

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



## Features

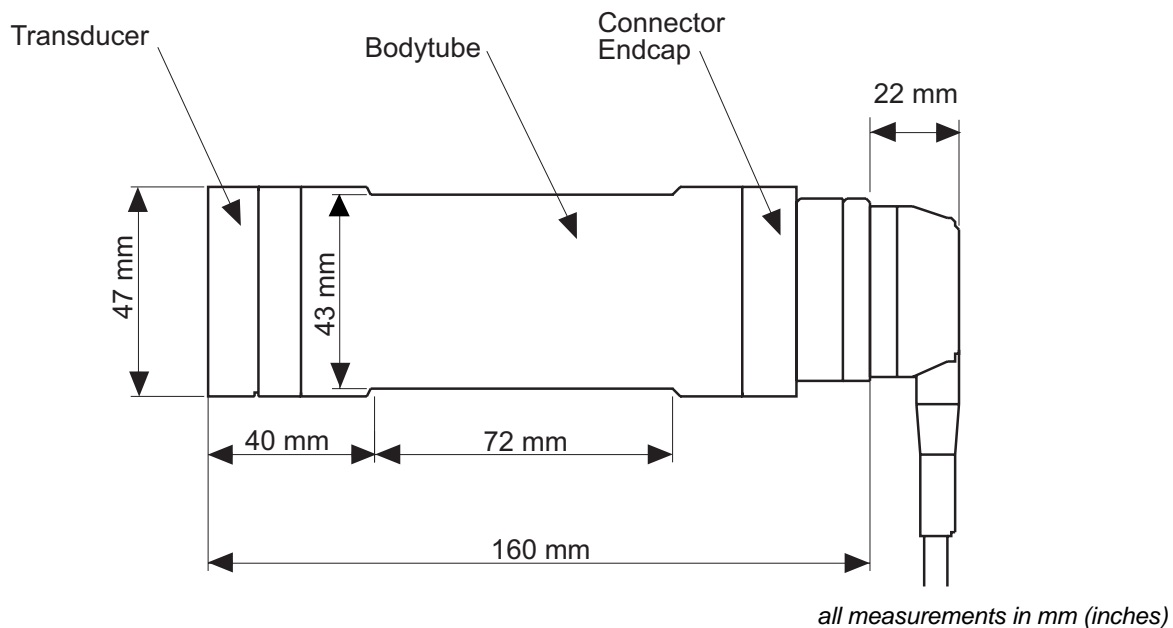
- ❑ *Analogue only outputs*
- ❑ *Digital only output*
- ❑ *Simultaneous analogue and digital outputs*
- ❑ *Noise immunity*
- ❑ *Can be field reconfigured for different applications*
- ❑ *Free-running outputs*
- ❑ *Interrogated outputs*
- ❑ *Low operating voltage options*
- ❑ *4000 metre standard depth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

## Specification



	<b>PA200-20</b>	<b>PA500-6</b>
<b>Operating frequency</b>	200 kHz	500 kHz
<b>Beamwidth</b>	20° Conical	6° Conical
<b>Operating range</b>	1 to 100 metres 0.7 to 50 metres	0.3 to 50 metres 0.1 to 10 metres
<b>Standard power supply</b>	24 VDC @ 80 mA, or 12 VDC @ 160 mA	
<b>Standard analogue output</b>	0 to 10 VDC (24 VDC units only), or 0 to 5 VDC	
<b>Digital resolution</b>	1mm on all ranges	
<b>Analogue resolution</b>	0.025% of range	
<b>Data communication options</b>	Serial RS232, or Serial RS485	
<b>Output modes</b>	Free running, or Interrogated, or multidrop network	
<b>Serial output format</b>	ASCII, 9600, 1, 8, n, 1	
<b>Length</b>	160mm	
<b>Diameter</b>	47mm	
<b>Standard depth rating (stainless steel body)</b>	4,000 m	
<b>Optional depth ratings</b>	700m 2,000m and 6,800m	
<b>Weight in air</b>	1.1 kg	
<b>Weight in water</b>	0.8 kg	
<b>Operating temperature range</b>	-10 to +40 °C	
<b>Dry storage temperature range</b>	-20 to +70 °C	

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

*Ref: ESD-ALT-002.12*



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