

PA200 and PA500



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

Tritech PA200 and PA500 Digital Precision Altimeters are based on high performance electronics with a proven and robust design. OEM configurations include low magnetic signature rigid Delrin™ housings or rightangled heads. Control of the altimeters may be performed directly from a PC, through a control system or part of a multidrop network. 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.

Specifications

Product	PA200 and PA500
Country of origin	UK
Manufacturer	Tritech International Limited

Features

- Analogue output
- Digital output
- Free-running output
- Interrogated output
- Optional low operating voltage
- • 700m, 4000m or 6800m ratings

Benefits

- Millimetre resolution capability
- Use for distance measurement
- Compact and low weight
- Various connector options
- Highly configurable design

Applications

- ROV and AUV altitude
- Under-ice measurement
- Integration with oceanographic sensors
- Low-cost hydro-graphic surveys
- Integration with bathymetric systems
- Touchdown monitoring of sub-sea structures
- Wave height measurement
- Monitoring of scouring on bridge supports

Electrical and communication

Power supply	24V DC at 80mA or 12V DC at 160mA
Analogue output	0 to 10V DC (with 24V power supply), 0 to 5V DC or 4 to 20mA
Data communications	RS232 or RS485
Output modes	Free running, interrogated or part of multidrop network

Acoustic

Power supply	PA200	PA500
Operating frequency	200kHz	500kHz
Beamwidth	12° conical	6° conical
Range	0.7 to 100m	0.3 to 50m (0.1 to 10m option)

Physical

Weights	1.15kg in air, 0.8kg in water (4000m stainless steel body)
Depth rating	700m with Delrin™ housing (aluminium alloy endcap) 4000m with aluminium alloy housing 4000/6800m with stainless steel housing 6800m with titanium 6Al-4V housing
Materials	Depended on depth, as shown above for straight transducer models All right-angle transducers are ABS (part C in the diagram)
Temperature	-10 to 35°C operating (-20 to 50°C storage)

Resolution

Digital	1mm
Analogue	0.025% of range

