

Altimeter MKII

The latest Digital Precision Altimeter offers reliable performance and accurate distance measurement in harsh subsea environments.

Tritech's latest Precision Altimeter offers a host of additional features along with the existing range of available connector and output options. Utilising our proprietary signal processing engine to provide millimetre accuracy, the devices now feature an inclinometer that can compensate for real time pitch and roll on altitude measurements.

Software configurable digital and analogue outputs allow the device to be integrated to a wide range of interfaces (including seamless operation within Tritech Genesis, Seanet or AltTest software). Compatibility with PC, data-loggers, multiplexers and industrial 4-20 mA interfaces are included as standard. The new instrument is fully backwards compatible with the previous PA sensor range.

Making use of Tritech's proprietary signal processing engine, the instrument actively filters acoustic noise generated by other subsea equipment to offer accurate and reliable target detection in the harshest of environments.

Benefits

- ROV and AUV altitude
- Precise distance measurement
- Millimetre accuracy
- Fully software configurable
- Compact and low weight
- Range of connector options and housing materials
- Fully backwards compatible with previous model

Features

- 200 kHz and 500 kHz options available
- Software configurable digital and analogue output
- Built-in inclinometer with slant-range correction
- Wide input voltage range
- 700 m, 4000 m, 6800 m depth ratings
- Straight and Right Angle transducer configurations

Key Specification

Operating frequency	200 kHz or 325 kHz
Beamwidth	20° & 6° conical
Depth rating	700 - 6800 m / 2297 - 22310 ft
Power requirements	Input Voltage 12 Vdc at < 2 W
Weight in water	0.8 kg / 1.77 lbs

Acoustic Specifications	PA200		PA500
Operating frequency	200 kHz		500 kHz
Beamwidth	20° conical		6° conical
Range	0.7 - 50 m / 2.30 - 164.00 ft	1 - 100 m / 3.28 - 328.10 ft	0.3 - 50 m / 0.98 - 164 ft 0.1 - 10 m / 0.33 - 32.81 ft

Resolution and Accuracy

Digital resolution	1 mm / 0.04 in
Analogue resolution	0.001 % of range (0 to 10 Vdc) or 0.003 % of range (0 to 5 Vdc)
Inclination accuracy	± 0.5°
Measurement accuracy	1 mm / 0.04 in

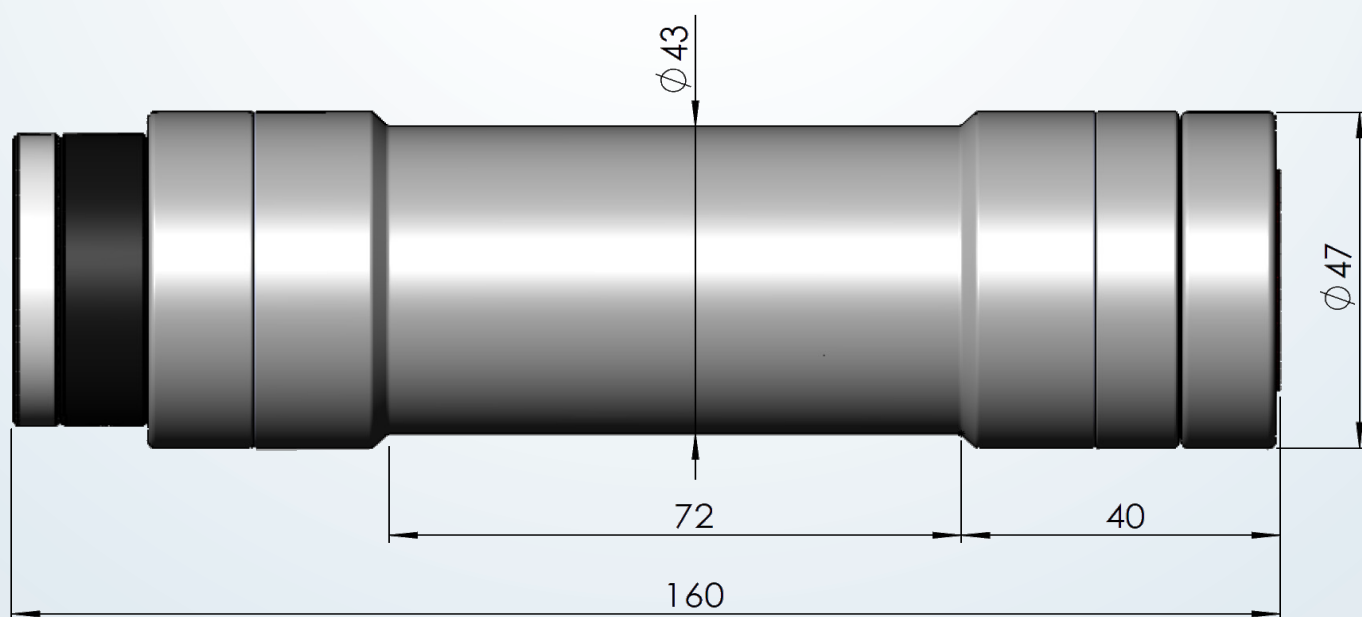
Electrical and Communications

Power requirement	Input Voltage 12 Vdc at < 2 W
Supply voltage	9 to 50 Vdc
Digital output	RS232 / RS485 (4800 to 115200 Baud)
Analogue output	- 0 to 5 Vdc - 0 to 10 Vdc - 4 to 20 mA Current Loop (Optional)
Output modes	Free-running, Interrogate, Multidrop Network, MK3 Comms, TTL Trigger

Physical Specification

Depth rating	700 m / 2296.59 ft 4000 m / 13123 ft 6800 m / 22310 ft
Weight in air / water	1.15 kg (2.54 lbs) / 0.8 kg (1.77 lbs) for stainless steel forward looking
Material choice (depth dependant)	Acetal, Anodised Aluminium, Stainless Steel, Titanium. All right-angle transducers are ABS.
Operating temperature	-10 to +40 °C / -14 to +104 °F
Storage temperature	-20 to +60 °C / -4 to +140 °F

Specification subject to change in line with Trittech's policy of continual product development



Not to scale. Measurements in mm.