



Long Range Digital Altimeter

LPA200

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
- Available in 4000m or 6000m standard depth rating

Applications

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



The PA200LR Digital Precision Altimeter is specifically designed for applications where long range, high accuracy echo-sounding is required.

It is both a stand alone and networkable product with all the features and flexibility of the Tritech industry standard PA200/500 altimeters.

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.

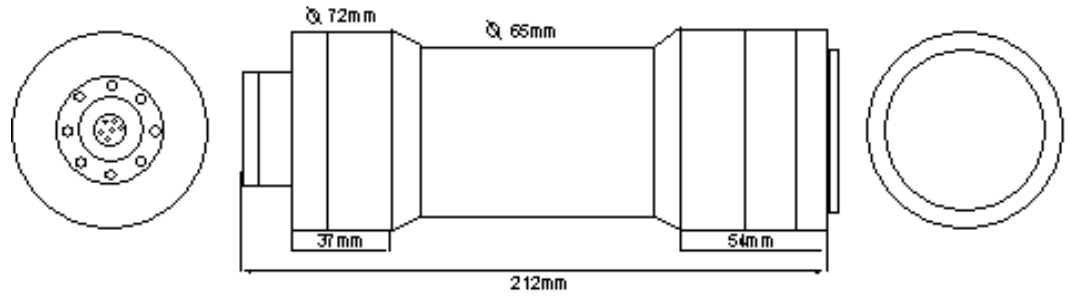
The altimeters contain a number of miniature switches which allow the units to be field reconfigured for different applications.

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

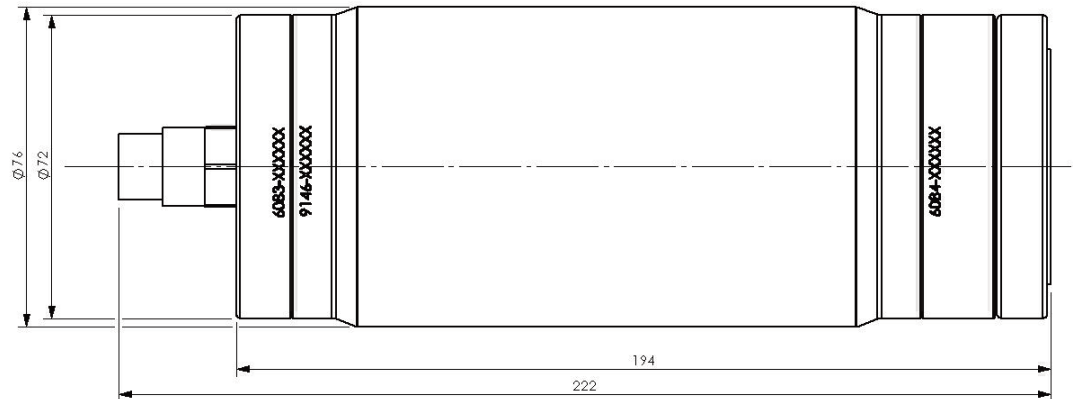
- Direct from a PC running DOS
- Direct from a PC running Windows
- Direct from a suitable control system
- Part of a multidrop network

Specifications

4000m depth rating



6000m depth rating



Operating frequency	200 kHz	
Beamwidth	10° Conical	
Operating range	1 - 200 metres	
Standard power supply	24 vdc @ 90 mA (optional 12V)	
Standard analogue output	0 to 10 VDC (24 VDC units only) 0 to 5 VDC or 4 - 20mA	
Digital timing resolution	1mm	
Analogue resolution	0.025% of range	
Data communication options	Serial RS232, or Serial RS485	
Output modes	Free running Interrogated, or multidrop network	
Serial output format	ASCII, 9600, 1, 8, n, 1	
Depth rating	4000 m	6000m
Length	212 mm	222 m
Diameter	72 mm	76 m
Weight in air	1.3 kg	4.33kg
Weight in water	0.95 kg	2.93kg

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

Ref: EDS-ALT-001.9