

# 1107 Altimeter



KONGSBERG



## For deep-ocean applications 975-71070000-7801

An underwater or subsea altimeter is primarily used to measure the altitude (height) of an object above the seafloor. Kongsberg Discovery's underwater altimeters are also suited to various other applications, including positioning, berthing, and below-surface monitoring. Altimeters are widely used in the underwater vehicle industry (ROVs and AUVs).

### Multiple configurations available

Various depths and frequencies are available to suit different applications. Kongsberg Discovery altimeters can be programmed for minimum/maximum ranges, and can be configured to output digital or analog signals.

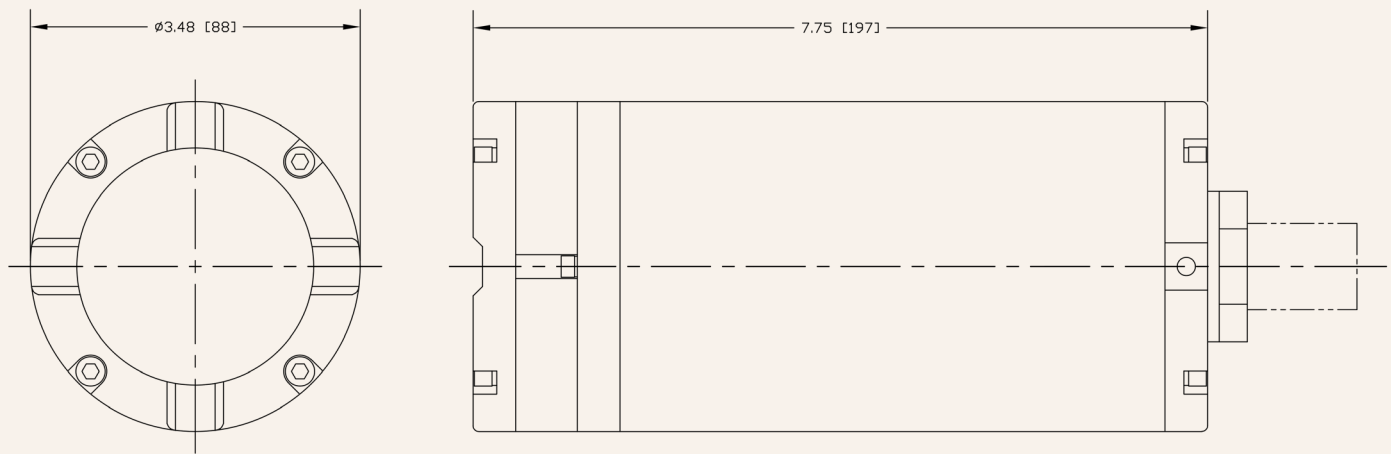
Models with digital output can use the MS1000 software to operate the altimeter and for data visualization.

### FEATURES

- Depth rating: 3000 m
- Robust design
- Small and lightweight
- NMEA DBT output

### APPLICATIONS

- Positioning
- Berthing
- Height above seabed
- ROV/AUV altitude
- Obstacle avoidance
- Below-surface monitoring
- Upward-looking surface level monitoring



## Technical specifications

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Operating frequency	200 kHz
Operating depth	3000 m
Beam width	10 ° nominal
Minimum range	0.3 m (0.98 ft)
Maximum range	100 m (328 ft)
Output resolution	25 mm (0.082 ft)
Range Window	2 m (6.56 ft)
Transmit Pulse length	100 microseconds
Repetition rate	Approximately 6/sec
Assumed speed of sound	1478 m/s (4849 ft/sec)
Telemetry interface	Analog Output
Max. Range Output	10.00 V
Min. Range Output	0.03 V
Over Range Output	10.24 V
Receive bandwidth	20 kHz max.
Connector	Seacon XSG-4-BCL
Power requirements	+22 to +28 VDC @ 1.0 A startup, 250 mA continuous
Materials	Aluminium 6061-T6, 300-Series Stainless Steel, PVC, and Epoxy
Finish	Anodize, black MIL-A-8625 type 2

### Temperature range

Operating	-10 to +40 ° C
Storage	-30 to +50 ° C

### Dimensions

Length	197 mm / 7.75" (excludes connector)
Diameter	88 mm / 3.48"

### Weight (est.)

In air	2.4 kg / 5.2 lbs
In water	1.1 kg / 2.4 lbs

Specifications subject to change without any further notice.