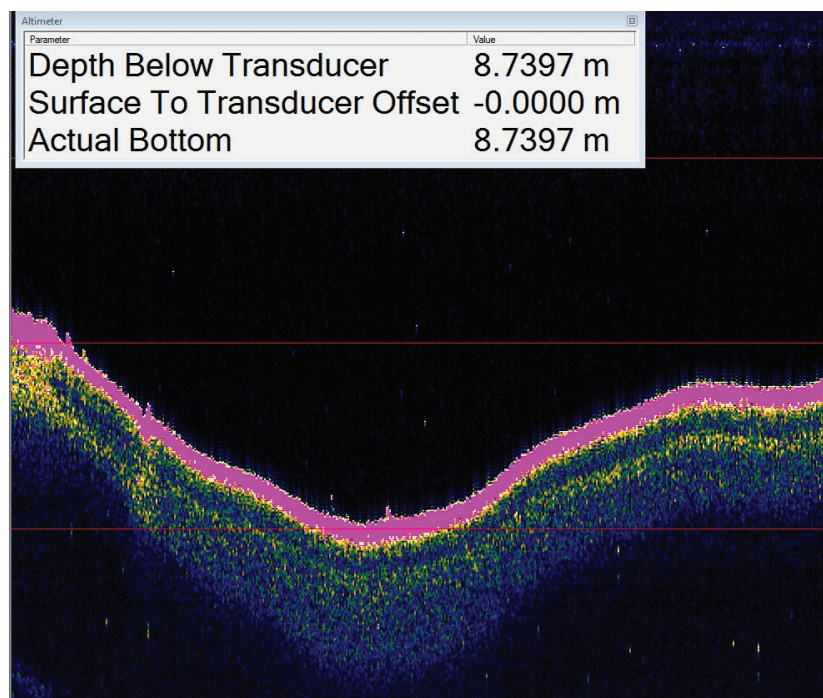# 1107 ALTIMETER

KONGSBERG

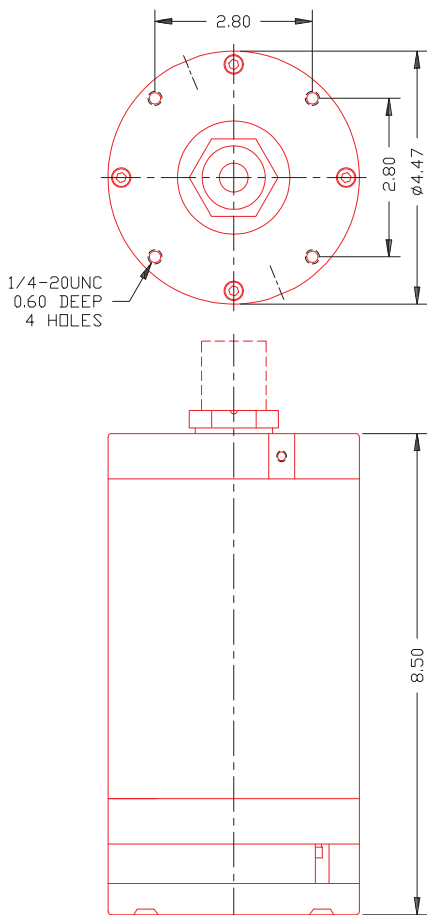HIGH-RESOLUTION ALTIMETERS
FOR DEEP OCEAN APPLICATIONS

1107 SERIES ALTIMETERS
P/N 975-72230000

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

HIGHLIGHTS

- Depth rating: 6000 m
- Robust design
- Small and lightweight
- NMEA DBT ouput
- Suitable for various applications, including positioning, berthing, height above seabed, and below-surface monitoring

Altimeter	
Parameter	Value
Depth Below Transducer	8.7397 m
Surface To Transducer Offset	-0.0000 m
Actual Bottom	8.7397 m

2.80

2.80

⌀4.47

1/4-20UNC
0.60 DEEP
4 HOLES

8.50

DEFAULT CONFIGURATION

Output format:
Analog (807 mode)

Minimum range:
0.61 m

Maximum range:
30.48 m

Output resolution:
7.62 mm

Transmit Pulse length:
100 μs

Repetition Rate:
14 pings/sec

Assumed speed of sound:
1478 m/sec

Serial interface:
RS232C

Aux. analog output:
    Min - 0.20 V
    Max - 10.00 V
    Over Range - 10.24 V

TECHNICAL SPECIFICATIONS

Operating frequency	200 kHz
Operating depth	6000 m
Beam width	10° nominal
Minimum range	Configurable in 807 mode, limited by pulse length
Maximum range	Configurable in 807 mode, < 300 m usable
Output resolution	Configurable in 807 mode, > 2.4 mm
Transmit Pulse length	Configurable in 807 mode, 20 to 1000 μs
Repetition rate	Limited by range and resolution
Assumed speed of sound	Configurable in 807 mode, 1400 to 1600 m/s
Operating mode	Configurable, 807 mode, 808 mode, 809 mode, or MS1000 Software
Serial interface	RS232C or RS485, configurable in 807 mode, adjustable in 809 mode, autodetected in MS1000 Software
Receive bandwidth	20 kHz max.
Downlink baud rate	9600 bps
Uplink baud rate	9600 bps, adjustable in MS1000 Software
Hold-off synchronization	Via serial command
Aux. analog output	Configurable, 0-5 V or 0-10 V
Connector	SubConn MCBH8MAS
Power requirements	+22 to +28 VDC @ 1.0 A startup, 250 mA continuous
Temperature range	-10 to +40°C operating, -30 to +50°C storage
Materials	Aluminium 6061-T6, 300-Series Stainless Steel, PVC, and Epoxy
Finish	Anodize, black MIL-A-8625 type 2
Dimensions	
Length	216 mm/8.50" (excludes connector)
Diameter	114 mm/4.47"
Weight (est.)	
in air	5.0 kg/11 lbs
in water	2.7 kg/6 lbs

Note: Use ALTCONFIG software to permanently change configurable settings.