

6000 m Sonar Head

Digital Telemetry



KONGSBERG

P/N 974-21030000

The 1071 Series of Sonar Heads are small, light weight and designed for deep ocean applications. These sonar heads feature lower current draw, and improved angle/range resolution over the previous 971 versions. The transducer is protected within an oil-filled, pressure compensating dome. The telemetry is RS485 and RS232 compatible and is automatically sensed and configured at start up to match the telemetry link used.

The sonar head is compatible with the MS 900D and MS 1000 surface processors and can be operated in multiple head configurations when RS485 telemetry is used.

Operating Frequency: 675 kHz
Beam Width: 1.4° x 22° Fan (nominal)
Range: 0.5 - 100 m typical
Range Resolution: ≥ 2.5 cm
Range Sampling: ≥ 2.0 cm (@ 1500 m/s speed of sound)
Scan Speed: nom 8 sec/360° @ 10 m and 1.8° step size (@ 230 kbits/sec.)
nom 34 sec/360° @ 100 m and 1.8° step size (@ 230 kbits/sec.)
Scan Angle: 360° continuous
Min. Mechanical Step Size: 0.45°
Transmit Pulse Widths: 20/50/100/250/500 μ s (user selectable and auto)
Receive Bandwidth: 28 kHz max.;
variable to suit pulse length & sample rate
Telemetry *: RS485/RS232 auto switching asynchronous serial data
Telemetry Rates: Down link: 9600 bps
Uplink selectable: 230K, 115K, 57K, 38K, 19K, 9600 bit/s automatic
(to suit telemetry cable)
Power Requirement: 22-26 VDC @ ≤ 0.5 A
Temperature Range: -10 to +40°C operating
-30 to +40°C storage
Operating Depth: 6000 m, with 50% safety factor
Connector: Seacon RMG-4-BCL; optional connectors based on customer request
Materials: Alum 6061-T6, 300 Series S.S., Urethane
Finish: Hard Anodize, Black/Gold MIL-A-8625 type II
Dimensions: Length 12.20"/310 mm
Diameter 5.50"/139 mm (max.)
Weight: In Air 14.2 lbs/6.4 kg
In Water 7.3 lbs/3.3 kg
Sensor Interface *: RS232

* For optional combined telemetry of external devices (such as bathymetric sensors) inquire to factory.

* For RS422 inquire to factory

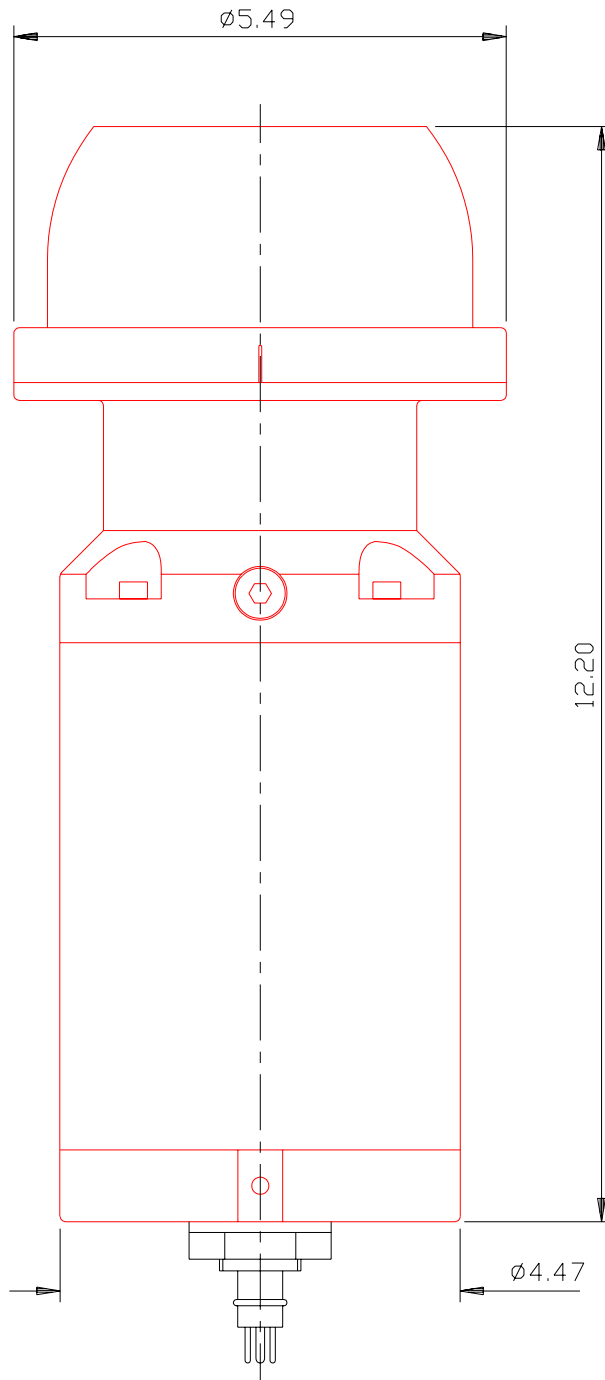
Specifications subject to change without notice

P/N 974-21037901 Iss 1.1

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