



KONGSBERG

1500 m Sonar Head

Digital Telemetry

P/N 974-21230000

The 1071 Series of Sonar Heads are designed for applications where size and weight are critical performance criteria. A unique drive and sensor section design, together with improved hardware and software, has resulted in a significant size reduction compared to our standard heads. The sonar features a lower current draw and improved angle/range resolution. The transducer is protected within an oil-filled, pressure compensating dome.

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

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|----------------------------|--|
| Operating Frequency: | 675 kHz |
| Beam Width: | 1.4° x 22° Fan (nominal) |
| Range: | 0.5 - 100 m typical |
| Range Resolution: | ≥ 27mm (@1500m/sec speed of sound, ≤ 35μs transmit pulse) |
| Sampling Resolution: | ≥ 21mm |
| 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: | 25 – 500 μs |
| Transmit Power Control | OFF, 100 W nom, 400 W nom |
| Receive Bandwidth: | 28 kHz max. |
| TVG Control: | -20 to +100dB |
| 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 @ ≤ 0.5A |
| Temperature Range: | -10 to +40°C operating -30 to +40°C storage |
| Operating Depth: | 1500 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 12.0"/305 mm (excluding connector) Diameter 3.23"/82 mm (dome 5.49"/139mm) |
| Weight: | In Air 7.5 lbs/3.4 kg In Water 2.7 lbs/1.2 kg |
| Sensor Interface *: | RS232 |
| Options | -7801 Built-in Security Key for MS 1000 Lite |

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

* For RS422 inquire to factory

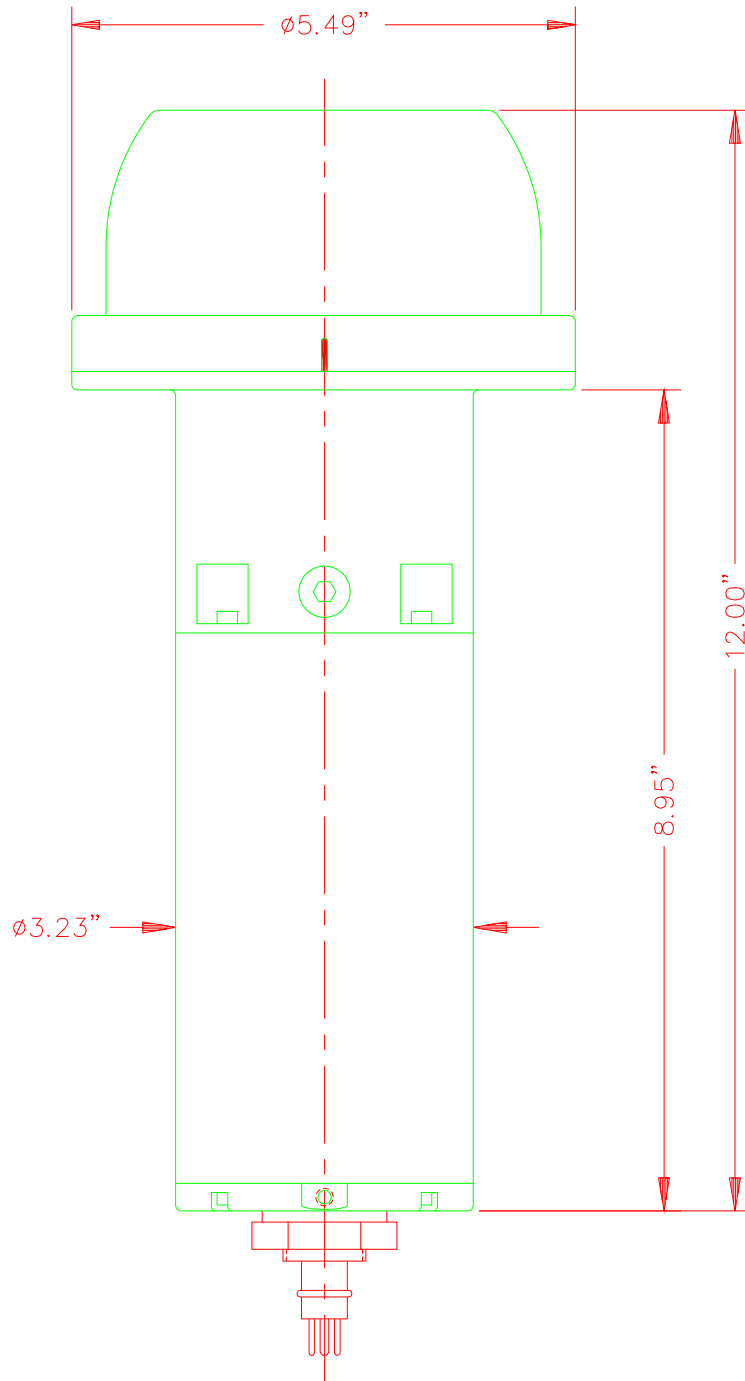
Specifications subject to change without notice

P/N 974-21237901 Iss 1.2

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