



KONGSBERG

650 m Sonar Head

Digital Telemetry

P/N 974-27010000

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

Operating Frequency:	675 kHz
Beam Width:	1.7° 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:	650 m, with 50% safety factor
Connector:	Seacon FAWL-4P-BC-R/A; optional connectors based on customer request
Materials:	Alum 6061-T6, 300 Series S.S., Urethane
Finish:	Hard Anodize, Black MIL-A-8625 type II
Dimensions:	Length 9.40"/239 mm (excluding guard) Diameter 3.00"/76 mm (excluding connector, guard)
Weight:	In Air 4.0 lbs/1.8 kg In Water 1.6 lbs/0.7 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

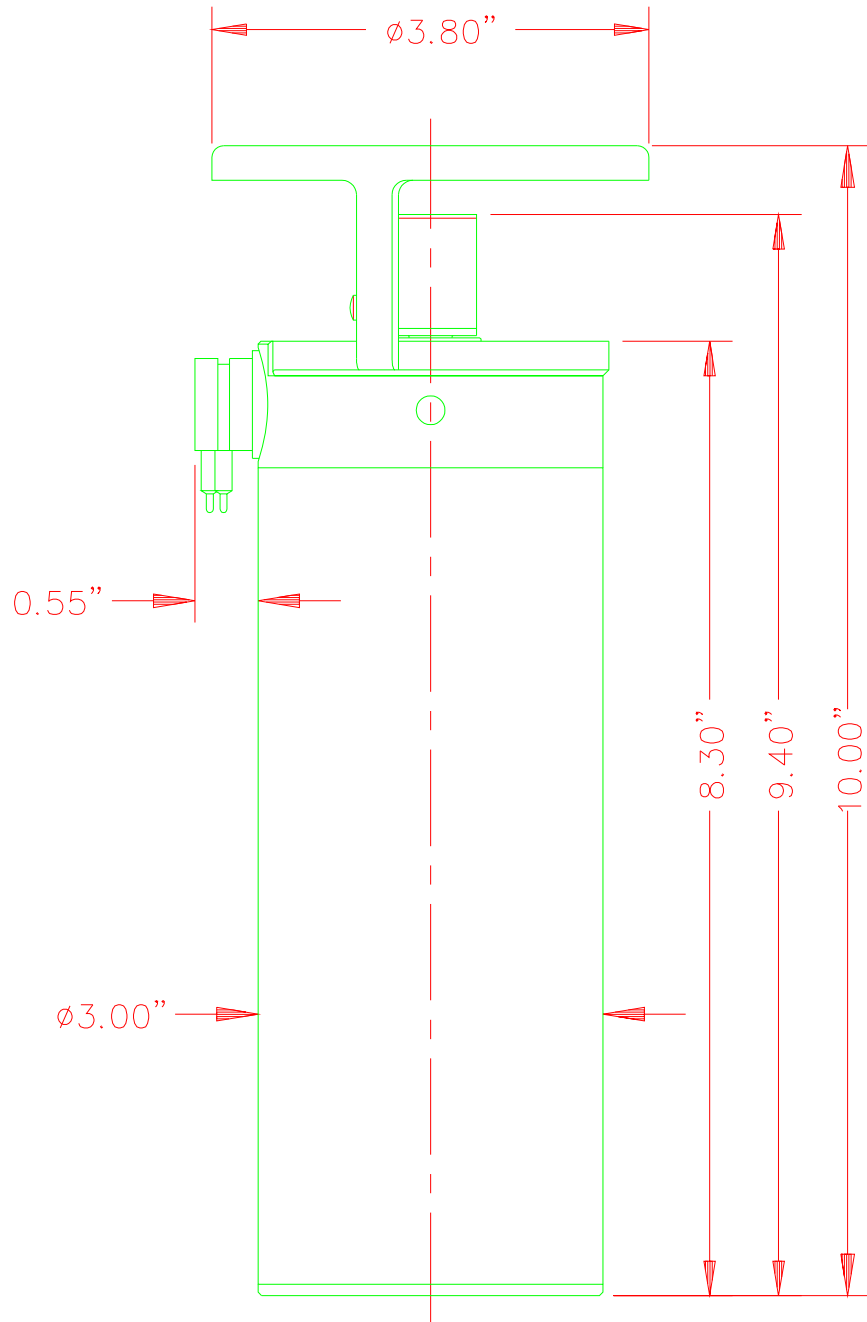
Specifications subject to change without notice

P/N 974-27017901 Iss 1.2

KONGSBERG MESOTECH LTD. 1598 Kebet Way, Port Coquitlam B.C. Canada V3C 5M5

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