



M36-900 SPECIFICATIONS

M36-900 Hydrophone

OVERVIEW

The M36-900 is a wide-band omni-directional hydrophone designed for marine observation. It comes with a pre-amplified output of 0 to 35 dB [selectable on order] with current or voltage signalling.



CHARACTERISTICS

PHYSICAL:

Maximum Operating Depth	900 Meters
Diameter	1.3 in
Length	7.8 in
Storage Temperatures	-40°C to +70°C
Operating Temperatures	0°C to +35°C
Connector Type	Subconn MCBH-8M
Acceleration Sensitivity	<1.5 mbar/g, in air, any axis
Labelling	Calibration parameters, serial number, date

ACOUSTIC:

Nominal Voltage	
Sensitivity (without preamp)	-200 dBV re 1µPa @20°C
Operational Range	1-200 kHz
Gain	0-35 dB (selectable on order)
Band Pass	5 Hz HPF, no LPF installed (unless otherwise specified)
Current Draw	1.3 mA (at 6.8 VDC) 4.2 mA with current signalling pre-amp
Input Voltage	6.8 VDC nominal 4.5-30 VDC operating range
IRN	<140 nV/√Hz @10 Hz <4 nV/√Hz @1 kHz
Preamp Signalling	Current, single ended voltage, or differential voltage (selectable on order)

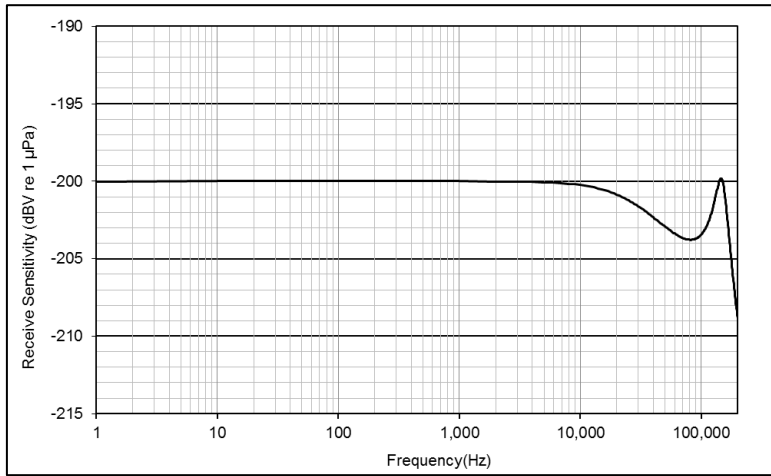


Figure 1: Receive Sensitivity Plot for M36-900 (Without Pre-Amp)

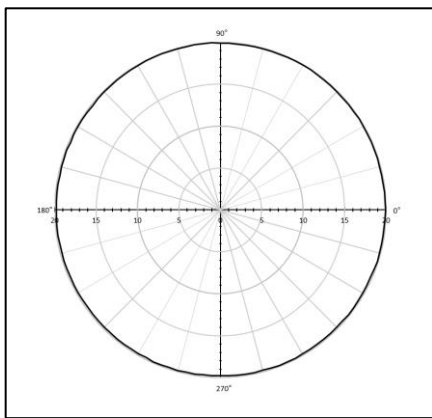


Figure 2: Horizontal Beam Pattern for the M36-900 @ 1 kHz

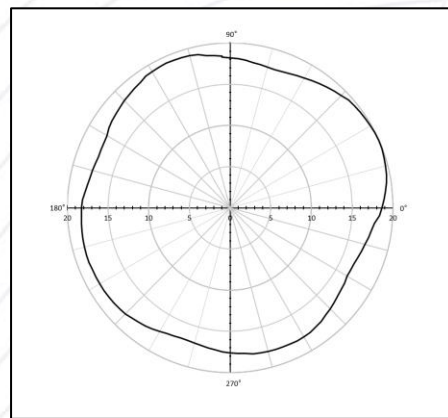


Figure 3: Horizontal Beam Pattern for the M36-900 @ 100 kHz

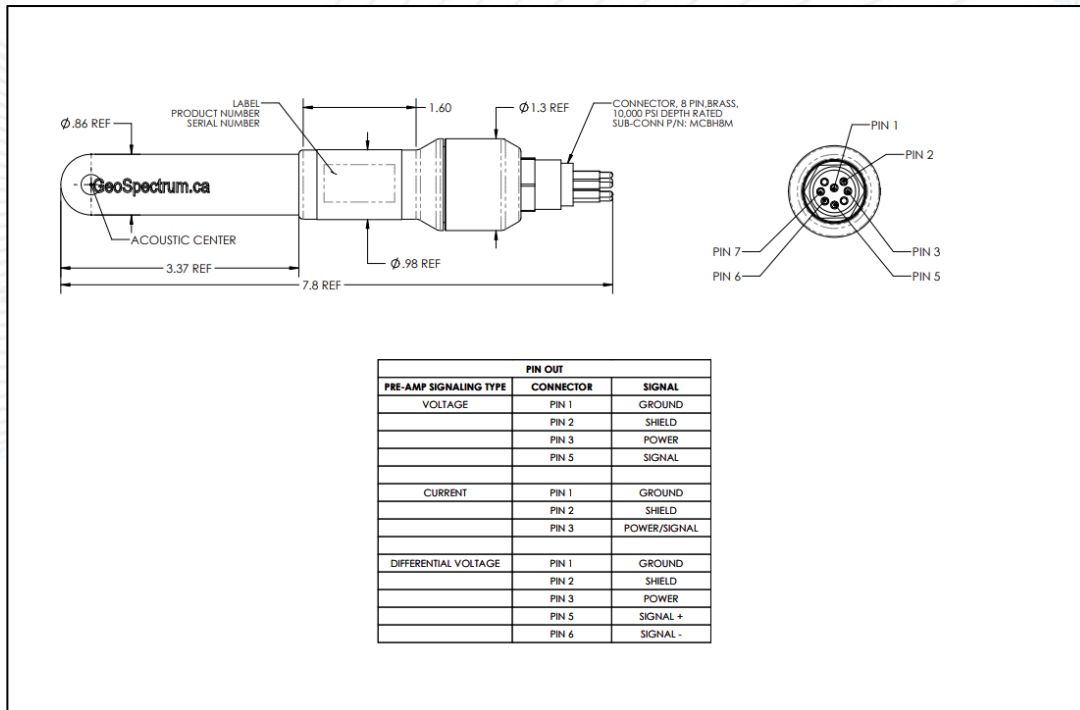


Figure 4: Dimensions of the M36-900 Hydrophone with labeled pin out