

## M8Q

A wide-band omni-directional hydrophone designed for marine observation. It comes with a preamplified output of 0 to 35 dB (selectable on order) with current or voltage signalling.

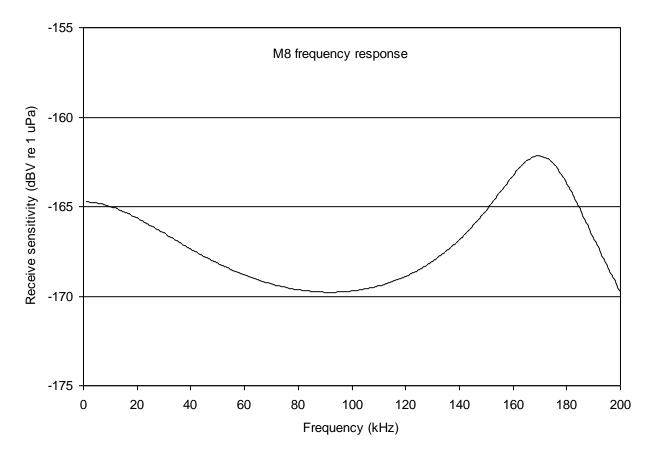


Electrical Characteristics	
Voltage Sensitivity (w/o pre-amp) With pre-amp	-200.0 ± 1.5 dBV re 1 μPa @ 20°C -165.0 ± 1.5 dBV re 1 μPa @ 20°C
Capacitance	1.4 nF ±20% @ 20°C
Mechanical Characteristics	
Size	5.8" Long x 0.5" OD
Operating Depth	3500m
Survival Depth	> 1500 m
Electrical connector	SubConn MCOM8-M
Storage and Operating Temperatures	-40 to +70°C
Acceleration Sensitivity	<1.5 mbar/g, in air, any axis
Lowest Resonance Frequency	170 kHz
Labelling	Calibration parameters, serial number, date
Stability	
Electrical Insulation Between Leads	>1 GQ @ 20°C and 50% humidity
Variation of Sensitivity	<0.3 dBV 1Hz to 2kHz <0.1 dBV over depth range
UV and Isopar Resistance	Excellent



## GeoSpectrum Technologies Inc.

Customizing Detection



## Figure 1 M8E Frequency Response

Voltage Pre-amp:

- Input voltage 6.8VDC nominal, 4.5V to 30V operational
- Gain = 35 dB Nominal, unless otherwise specified.
- Band pass: 5 Hz HPF, no LPF installed
- IRN: <30nV/√Hz @10 Hz, <6nV/√Hz @1 kHz
- Current draw 1.3 mA typical at 6.8 VDC, 4.2mA typical in current signalling mode