



GeoSpectrum Technologies Inc.
Customizing Detection

M5-360

The M5-360 is a medium frequency 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

Nominal Voltage Sensitivity (without preamp)	-195 dBV re 1 μ Pa @ 20°C
Size	7.8" length, 1.3" max OD
Depth Rating	1700 m
Storage and Operating Temperatures	-40 to +70°C
Labelling	Calibration parameters, serial number, date
Connector	MCBH-8M

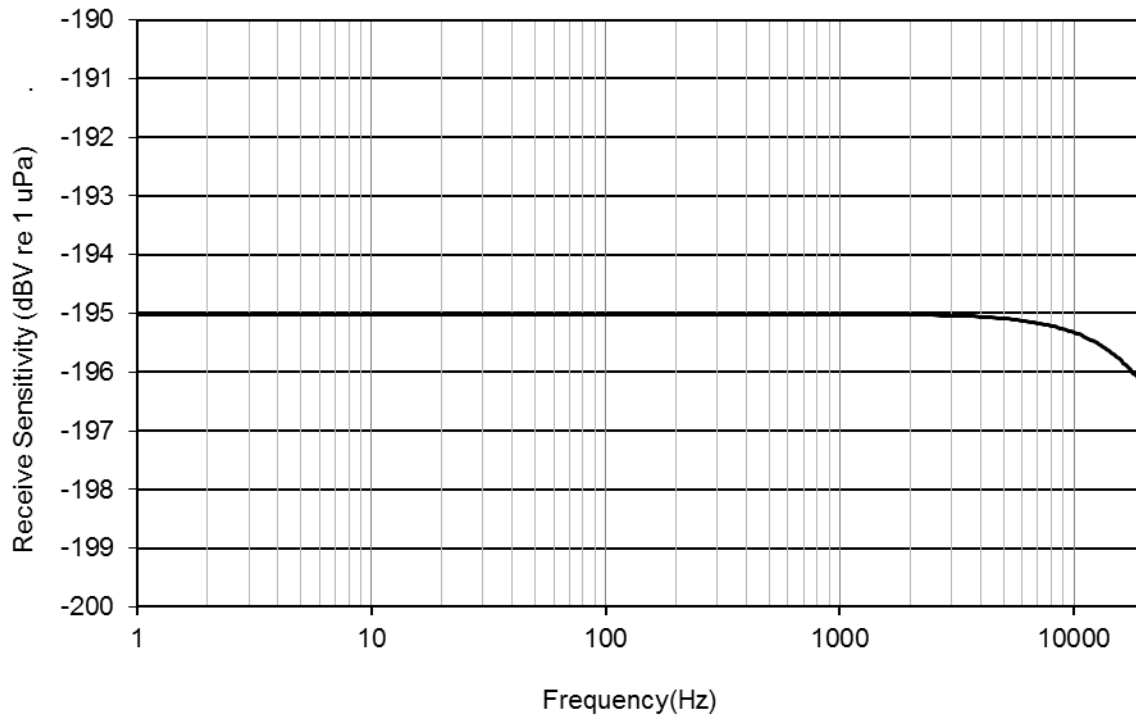
Pre-Amplifier

Preamp signalling	Current or voltage (selectable on order)
Gain	0 – 35 dB (selectable on order)
Input Voltage	6.8 VDC nominal 4.5 – 30 VDC operating range
Band Pass	5 Hz HPF, no LPF installed (unless otherwise specified)
IRN	<30 nV/ $\sqrt{\text{Hz}}$ @10 Hz <4 nV/ $\sqrt{\text{Hz}}$ @1 kHz
Current Draw	1.3 mA (at 6.8 VDC) 4.2 mA with current signalling preamp



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M5 Frequency Response (without preamp)





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M5-370

The M5-370 is a medium frequency 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

Nominal Voltage Sensitivity (without preamp)	-195 dBV re 1 μ Pa @ 20°C
Size	7.8" length, 1.3" max OD
Depth Rating	2000 m
Storage and Operating Temperatures	-40 to +70°C
Labelling	Calibration parameters, serial number, date
Connector	MCBH-8M

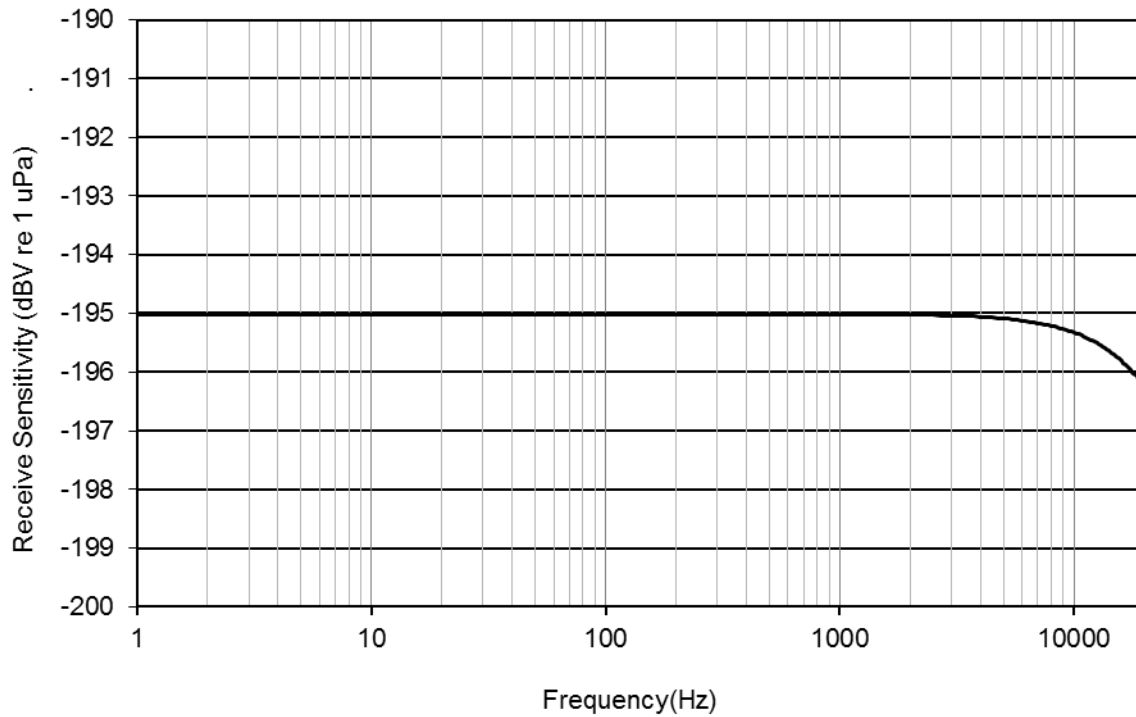
Pre-Amplifier

Preamp signalling	Current or voltage (selectable on order)
Gain	0 – 35 dB (selectable on order)
Input Voltage	6.8 VDC nominal 4.5 – 30 VDC operating range
Band Pass	5 Hz HPF, no LPF installed (unless otherwise specified)
IRN	<30 nV/ $\sqrt{\text{Hz}}$ @10 Hz <4 nV/ $\sqrt{\text{Hz}}$ @1 kHz
Current Draw	1.3 mA (at 6.8 VDC) 4.2 mA with current signalling preamp



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M5 Frequency Response (without preamp)





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M5-900

The M5-900 is a medium frequency 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

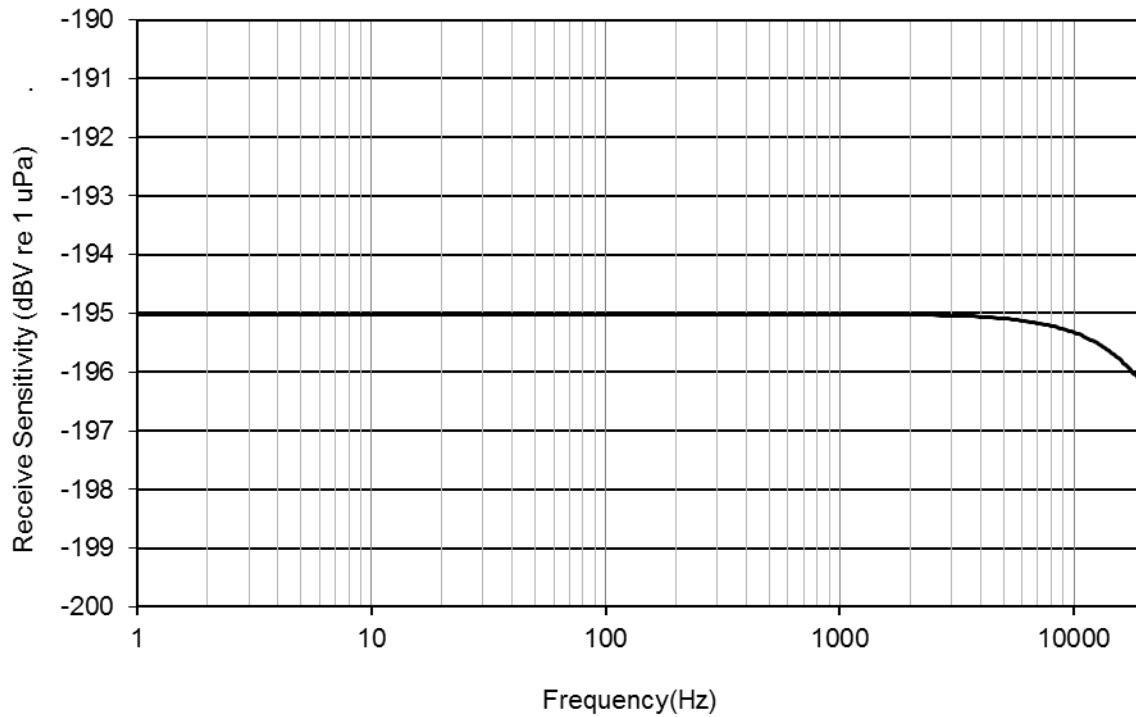
Nominal Voltage Sensitivity (without preamp)	-195 dBV re 1 μ Pa @ 20°C
Size	7.8" length, 1.3" max OD
Depth Rating	900 m
Storage and Operating Temperatures	-40 to +70°C
Labelling	Calibration parameters, serial number, date
Connector	MCBH-8M

Pre-Amplifier

Preamp signalling	Current or voltage (selectable on order)
Gain	0 – 35 dB (selectable on order)
Input Voltage	6.8 VDC nominal 4.5 – 30 VDC operating range
Band Pass	5 Hz HPF, no LPF installed (unless otherwise specified)
IRN	<30 nV/ $\sqrt{\text{Hz}}$ @10 Hz <4 nV/ $\sqrt{\text{Hz}}$ @1 kHz
Current Draw	1.3 mA (at 6.8 VDC) 4.2 mA with current signalling preamp



M5 Frequency Response (without preamp)





GeoSpectrum Technologies Inc.
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M14-360

The M14-360 is a medium frequency 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

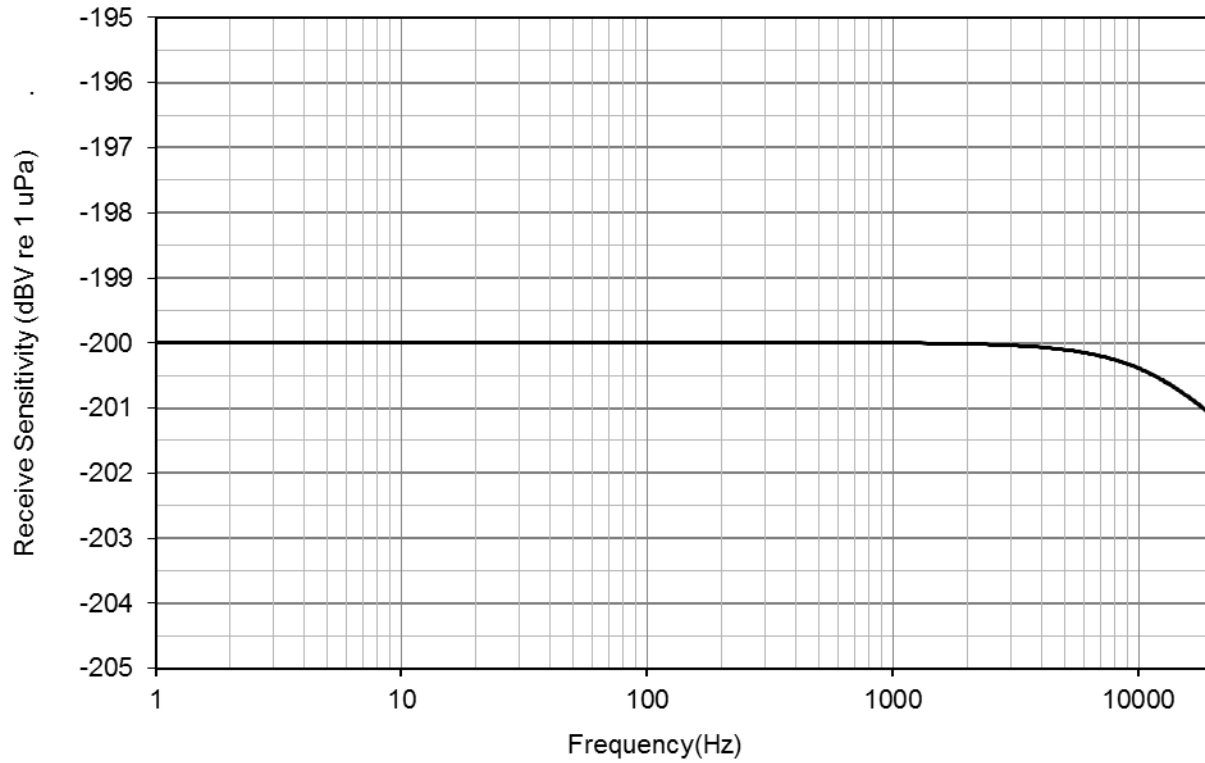
Nominal Voltage Sensitivity (without preamp)	-200 dBV re 1 μ Pa @ 20°C
Size	7.8" length, 1.3" max OD
Depth Rating	3500 m
Storage and Operating Temperatures	-40 to +70°C
Labelling	Calibration parameters, serial number, date
Connector	MCBH-8M

Pre-Amplifier

Preamp signalling	Current or voltage (selectable on order)
Gain	0 – 35 dB (selectable on order)
Input Voltage	6.8 VDC nominal 4.5 – 30 VDC operating range
Band Pass	5 Hz HPF, no LPF installed (unless otherwise specified)
IRN	<45 nV/ $\sqrt{\text{Hz}}$ @10 Hz <4 nV/ $\sqrt{\text{Hz}}$ @1 kHz
Current Draw	1.3 mA (at 6.8 VDC) 4.2 mA with current signalling preamp



M14 Frequency Response (without preamp)





M14-370

The M14-370 is a medium frequency 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

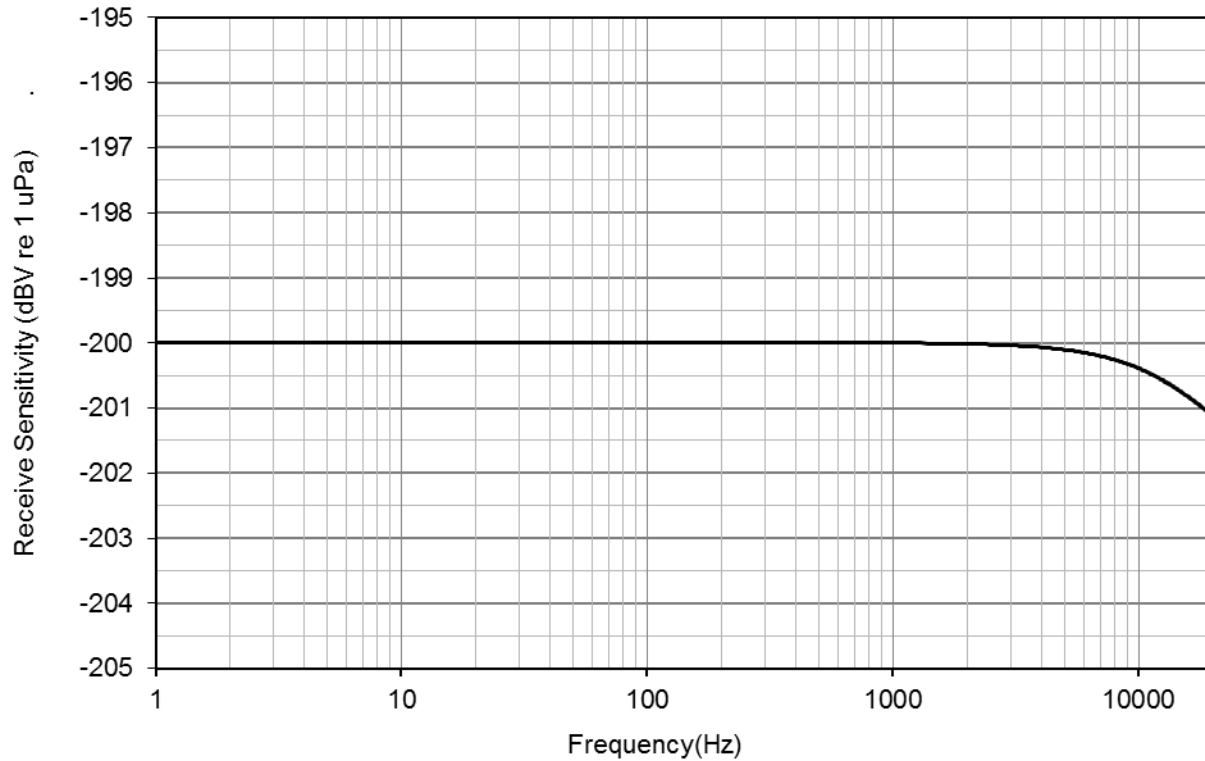
Nominal Voltage Sensitivity (without preamp)	-200 dBV re 1 μ Pa @ 20°C
Size	7.8" length, 1.3" max OD
Depth Rating	1700 m
Storage and Operating Temperatures	-40 to +70°C
Labelling	Calibration parameters, serial number, date
Connector	MCBH-8M

Pre-Amplifier

Preamp signalling	Current or voltage (selectable on order)
Gain	0 – 35 dB (selectable on order)
Input Voltage	6.8 VDC nominal 4.5 – 30 VDC operating range
Band Pass	5 Hz HPF, no LPF installed (unless otherwise specified)
IRN	<30 nV/ $\sqrt{\text{Hz}}$ @10 Hz <4 nV/ $\sqrt{\text{Hz}}$ @1 kHz
Current Draw	1.3 mA (at 6.8 VDC) 4.2 mA with current signalling preamp



M14 Frequency Response (without preamp)





GeoSpectrum Technologies Inc.
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M14-600

The M14-600 is a medium frequency 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

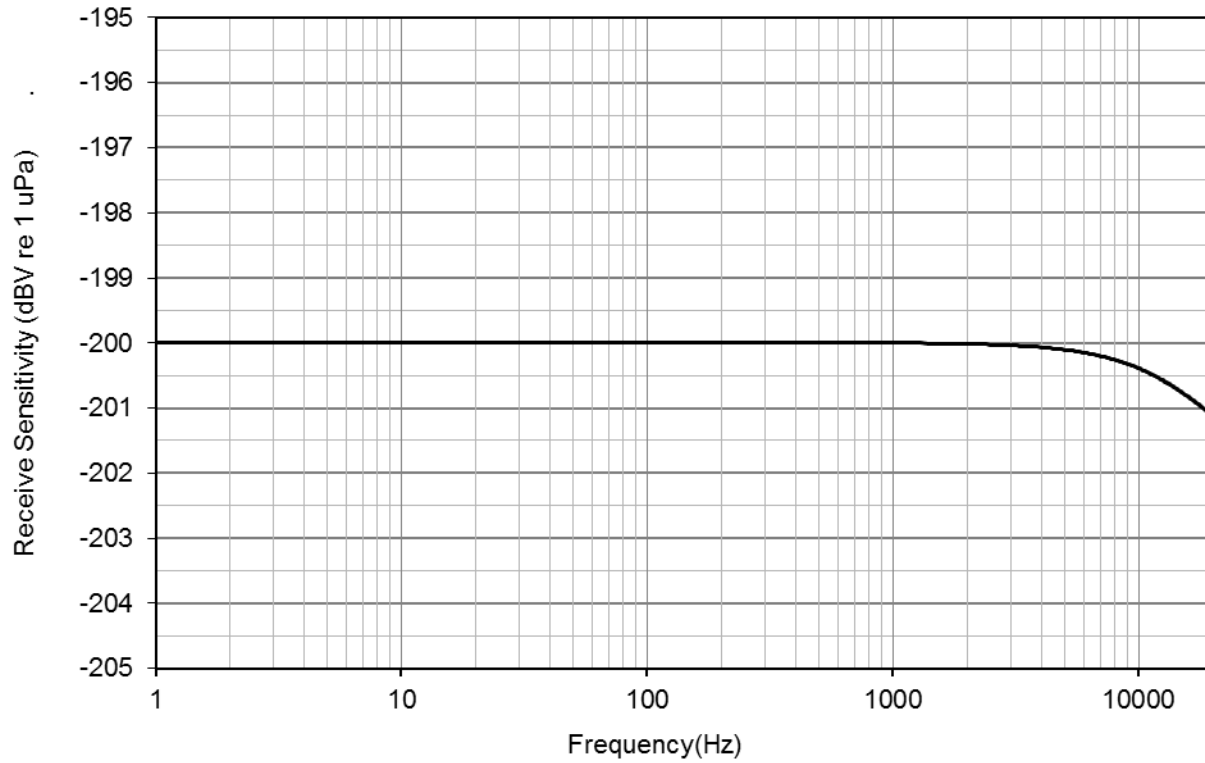
Size	7.8" length, 1.3" max OD
Depth Rating	6000 m
Storage and Operating Temperatures	-40 to +70°C
Labelling	Calibration parameters, serial number, date
Connector	MCBH-8M

Pre-Amplifier

Preamp signalling	Current or voltage (selectable on order)
Gain	0 – 35 dB (selectable on order)
Input Voltage	6.8 VDC nominal 4.5 – 30 VDC operating range
Band Pass	5 Hz HPF, no LPF installed (unless otherwise specified)
IRN	<30 nV/√Hz @10 Hz <4 nV/√Hz @1 kHz
Current Draw	1.3 mA (at 6.8 VDC) 4.2 mA with current signalling preamp



M14 Frequency Response (without preamp)





GeoSpectrum Technologies Inc.

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M14-900

The M14-900 is a medium frequency 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

Nominal Voltage Sensitivity (without preamp)	-200 dBV re 1 μ Pa @ 20°C
Size	7.8" length, 1.3" max OD
Depth Rating	900 m
Storage and Operating Temperatures	-40 to +70°C
Labelling	Calibration parameters, serial number, date
Connector	MCBH-8M

Pre-Amplifier

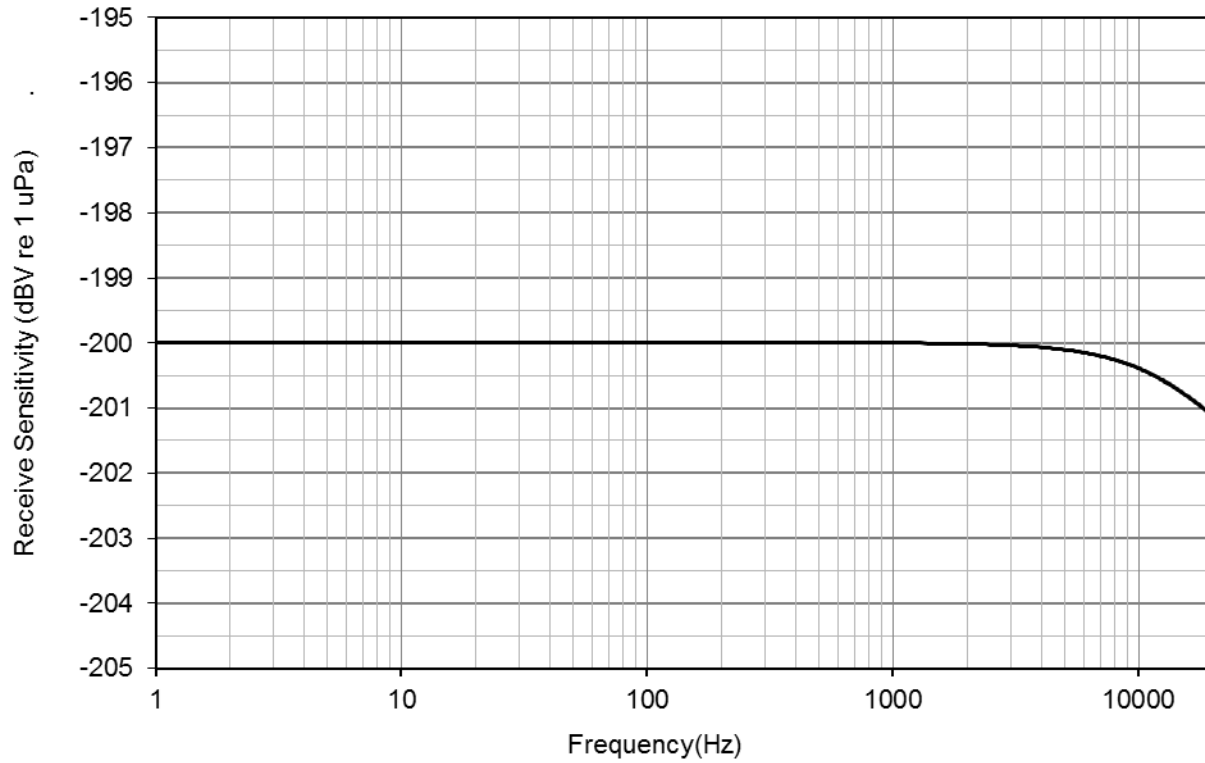
Preamp signalling	Current or voltage (selectable on order)
Gain	0 – 35 dB (selectable on order)
Input Voltage	6.8 VDC nominal 4.5 – 30 VDC operating range
Band Pass	5 Hz HPF, no LPF installed (unless otherwise specified)
IRN	<30 nV/ $\sqrt{\text{Hz}}$ @10 Hz <4 nV/ $\sqrt{\text{Hz}}$ @1 kHz
Current Draw	1.3 mA (at 6.8 VDC) 4.2 mA with current signalling preamp



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M14 Frequency Response (without preamp)





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Customizing Detection

M15-360

The M15-360 is a high sensitivity, medium frequency 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

Nominal Voltage Sensitivity (without preamp)	-190 dBV re 1 μ Pa @ 20°C (See Figure 1)
Size	7.8" length, 1.3" max OD
Depth Rating	1700 m
Storage and Operating Temperatures	-40 to +70°C
Labelling	Calibration parameters, serial number, date
Connector	MCBH-8M

Pre-Amplifier

Preamp signalling	Current or voltage (selectable on order)
Gain	0 – 35 dB (selectable on order)
Input Voltage	6.8 VDC nominal 4.5 – 30 VDC operating range
Band Pass	20 Hz HPF, no LPF installed (unless otherwise specified)
IRN	<209 nV/ $\sqrt{\text{Hz}}$ @10 Hz <4 nV/ $\sqrt{\text{Hz}}$ @1 kHz
Current Draw	1.3 mA (at 6.8 VDC) 4.2 mA with current signalling preamp



M15 Frequency Response (without preamp)

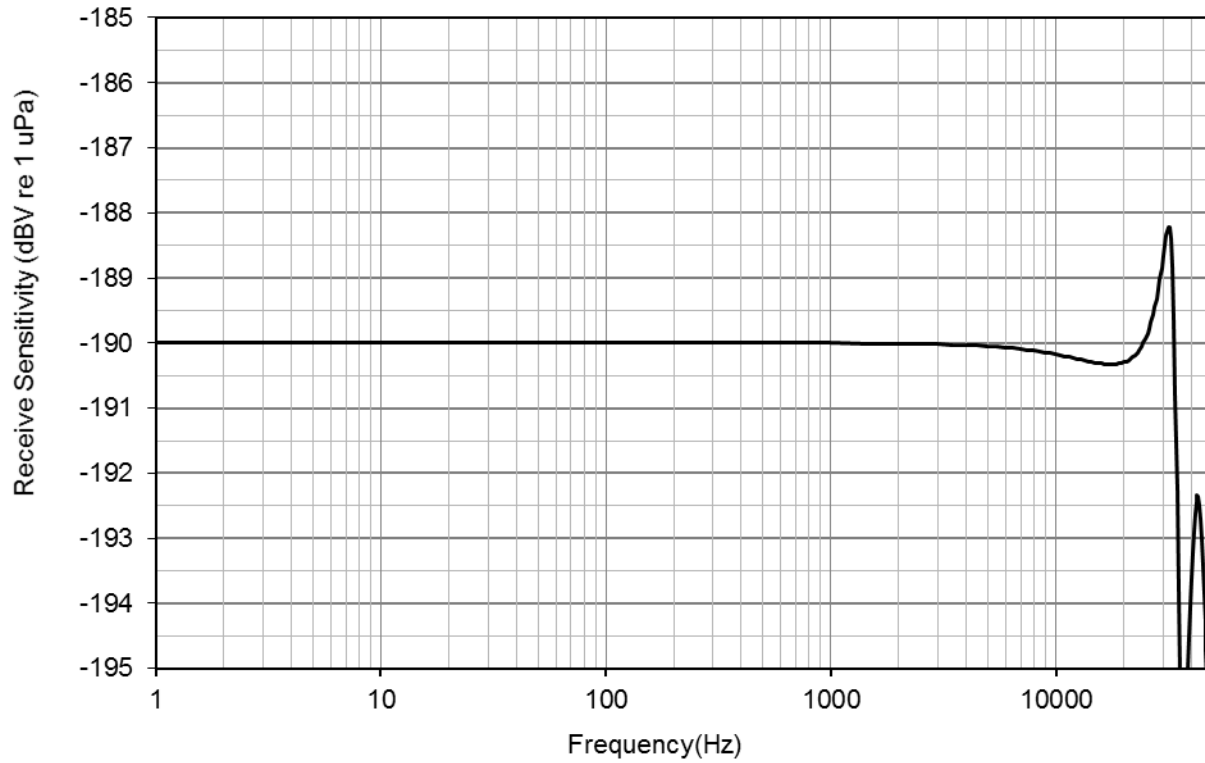


Figure 1



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Customizing Detection

M15-900

The M15-900 is a high sensitivity, medium frequency 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

Nominal Voltage Sensitivity (without preamp)	-190 dBV re 1 μ Pa @ 20°C (See Figure 1)
Size	7.8" length, 1.3" max OD
Depth Rating	900 m
Storage and Operating Temperatures	-40 to +70°C
Labelling	Calibration parameters, serial number, date
Connector	MCBH-8M

Pre-Amplifier

Preamp signalling	Current or voltage (selectable on order)
Gain	0 – 35 dB (selectable on order)
Input Voltage	6.8 VDC nominal 4.5 – 30 VDC operating range
Band Pass	20 Hz HPF, no LPF installed (unless otherwise specified)
IRN	<209 nV/ $\sqrt{\text{Hz}}$ @10 Hz <4 nV/ $\sqrt{\text{Hz}}$ @1 kHz
Current Draw	1.3 mA (at 6.8 VDC) 4.2 mA with current signalling preamp



M15 Frequency Response (without preamp)

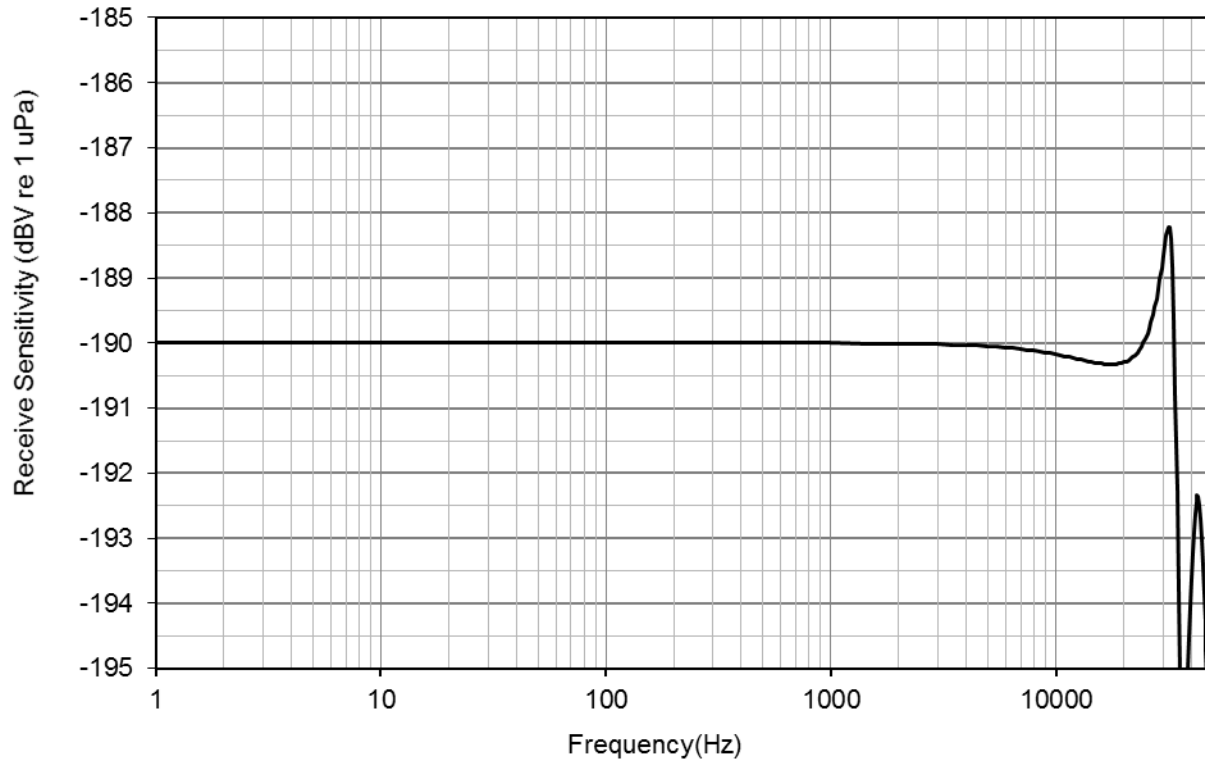


Figure 1



M36-100

The M36-100 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

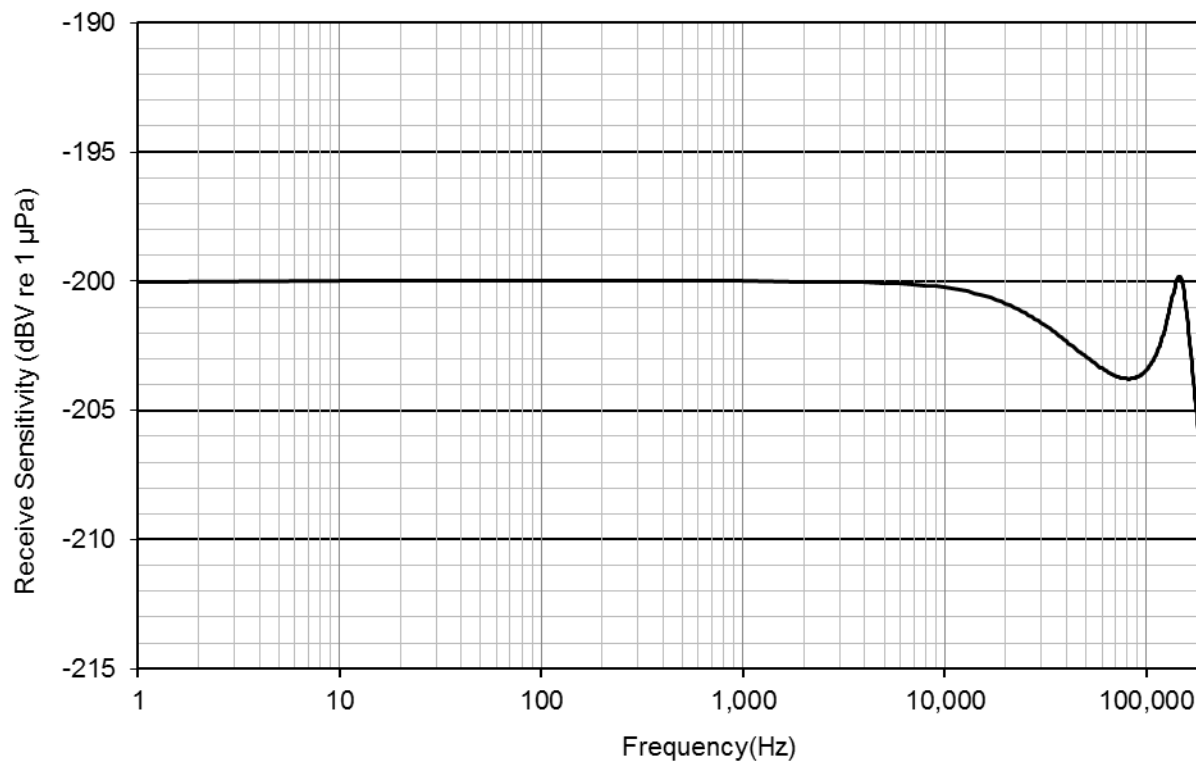
Nominal Voltage Sensitivity (without preamp)	-200 dBV re 1 μ Pa @ 20°C
Size	7.8" length, 1.3" max OD
Depth Rating	2500 m
Storage and Operating Temperatures	-40 to +70°C
Acceleration Sensitivity	<1.5 mbar/g, in air, any axis
Labelling	Calibration parameters, serial number, date
Connector	MCBH-8M

Pre-Amplifier

Preamp signalling	Current, single ended voltage or, differential voltage (selectable on order)
Gain	0 – 35 dB (selectable on order)
Input Voltage	6.8 VDC nominal 4.5 – 30 VDC operating range
Band Pass	5 Hz HPF, no LPF installed (unless otherwise specified)
IRN	<140 nV/ $\sqrt{\text{Hz}}$ @10 Hz <4 nV/ $\sqrt{\text{Hz}}$ @1 kHz
Current Draw	1.3 mA (at 6.8 VDC) 4.2 mA with current signalling preamp



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M36 Frequency Response (without preamp)



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M36-600

The M36-600 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

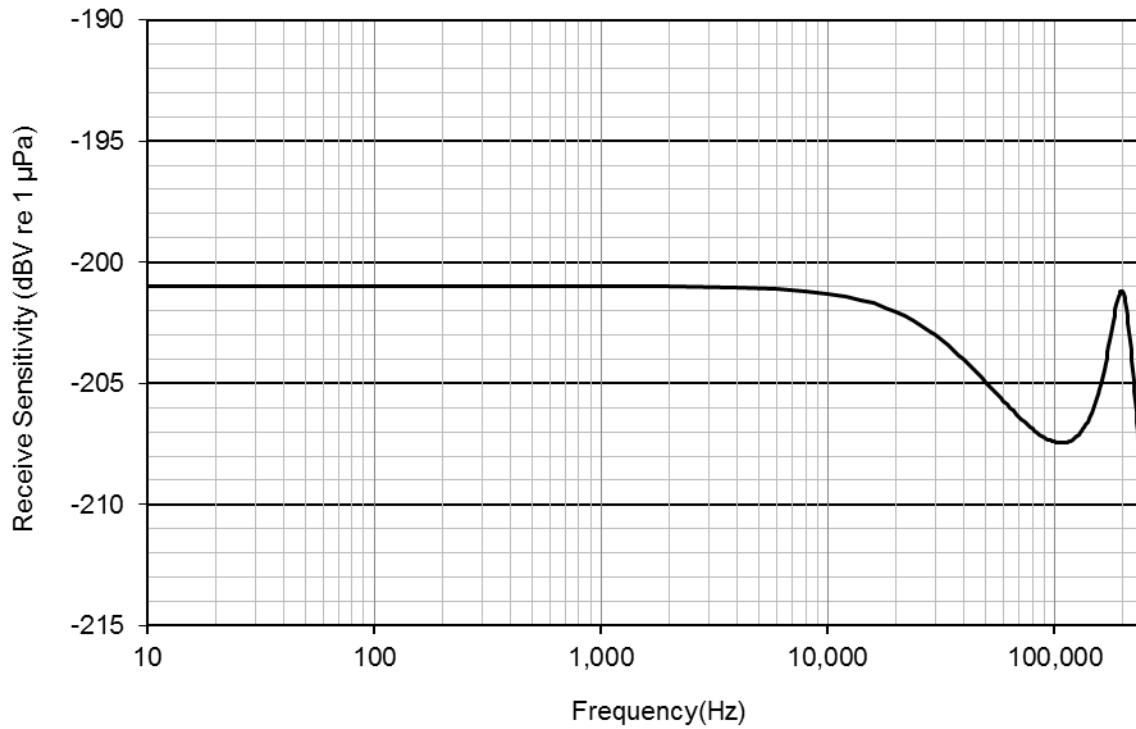
Nominal Voltage Sensitivity (without preamp)	-201 dBV re 1 μ Pa @ 20°C
Size	7.8" length, 1.3" max OD
Depth Rating	6000m
Storage and Operating Temperatures	-40 to +70°C
Acceleration Sensitivity	<1.5 mbar/g, in air, any axis
Labelling	Calibration parameters, serial number, date
Connector	MCBH-8M

Pre-Amplifier

Preamp signalling	Current, single ended voltage or, differential voltage (selectable on order)
Gain	0 – 35 dB (selectable on order)
Input Voltage	6.8 VDC nominal 4.5 – 30 VDC operating range
Band Pass	20 Hz HPF, no LPF installed (unless otherwise specified) <120 nV/ $\sqrt{\text{Hz}}$ @50 Hz
IRN	<7 nV/ $\sqrt{\text{Hz}}$ @1 kHz <4 nV/ $\sqrt{\text{Hz}}$ @10 kHz
Current Draw	1.3 mA (at 6.8 VDC) 4.2 mA with current signalling preamp



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M36-600 Frequency Response (without preamp)