



Hydrophones

OMNIDIRECTIONAL WIDE-BAND SENSING

OVERVIEW

GeoSpectrum designs and manufactures a variety of wide-band omnidirectional hydrophones which include an integral low-power, low-noise, voltage- or current-signalling preamplifier.

Hydrophones can be configured to operate over customer-defined bandwidths, required sensitivity and allow for customizable gain. The depth rating for each hydrophone can be tailored to meet export requirements and range from shallow- to deep-water applications.

APPLICATIONS

GeoSpectrum's wide variety of hydrophones can be used in a myriad of ways. From detecting marine mammals to monitoring blow-out preventers and subsea construction, GeoSpectrum has a hydrophone that will suit your needs.

SPECIFICATIONS

Model Number	Unamplified Sensitivity (dB re V/ μ Pa)	Max Depth [m]	Max Freq [kHz]	Element Capacitance (nF)
M5-360	-195	1700	20	2
M5-900	-195	900	20	2
M14-360	-200	3500	20	5
M14-900	-200	900	20	8
M15-360	-190	1700	15	1
M15-900	-190	900	15	1
M36-100	-200	2500	250	1.5
M36-900	-200	900	250	1.5



M351 Field Calibrator

VALIDATE HYDROPHONE SENSITIVITY BEFORE DEPLOYMENT

OVERVIEW

The M351 is a battery-operated precision hydrophone field calibrator. The calibrator can display the hydrophone [HP] sensitivity and/or the sound pressure level [SPL] in the calibration chamber. The M351 is intended to calibrate GeoSpectrum hydrophones, or can be supplied with a custom interface to support hydrophones from other suppliers.

GeoSpectrum provides a Windows application, Hydrophone Connection Software, which enables users to update firmware on the field calibrator as well as to view the data stored on the internal EEPROM. Communication with the field calibrator is achieved serially via a USB-B port on the calibrator.



APPLICATIONS

The M351 allows users to easily test and validate hydrophone accuracy and sensitivity prior to deployment. Ocean trials and testing can be costly; having assurance that test equipment will provide accurate data collection can reduce time and cost.

SPECIFICATIONS

Hydrophone: M36 & others with similar form factor

Max Diameter: 1.5" (active element in top 3" of sensor)

Interface: MCBH-8F on calibrator

Frequencies: 10, 26, 70, 100, 250Hz

Computation/Display: HP sensitivity and/or SPL in box

Reference HP: GTI M2, accuracy ± 0.1 dB

Calibration Accuracy: ± 0.25 dB

Display: Basic 16x2 character LCD

Calibration Data Storage: Internal EEPROM

Software: GTI HP Connection

Communication: Serial via USB-B port on calibrator

Power: Internal 12V NiMH rechargeable battery

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