



GeoSpectrum Technologies Inc
Customizing Detection

Portable Acoustic Calibration System (M602-LF)

ABILITY TO CARRY OUT A RANGE OF TESTS

- Transmit Voltage Response (TVR) of Sound Sources
- Beam Pattern
- Complex Impedance / Admittance
- Receive Voltage Sensitivity of Hydrophones
- Source Level Measurements
- Frequency Range 1 Hz to 400 kHz



Portable Acoustic Calibration System (M602-LF)

For Active Sources and Receivers from 1 Hz to 400 kHz!

GeoSpectrum's principals have over five decades experience in calibrating underwater transducers: in oceans, lakes, harbours and tanks. We have learned first-hand what it takes to build an accurate calibration system, and which features to include to make it convenient to use. When GeoSpectrum wrote its own calibration software, it incorporated the best of what we had seen, and many useful features that we had wished we had had. The result is a calibration system that is not only highly accurate, but also fast and convenient to use. The calibration system is also portable so you can put it and your transducers on a small vessel and calibrate on whatever body of water is available to you, if necessary using battery power.



Set up for accurate beam pattern measurements

Portable: can be used from vessels of opportunity in various size bodies of water or in test tanks as pictured above.



Portable Calibration Unit consists of:

Data Acquisition Unit (DAQ)
DAQ Interface Unit
Power Amplifier
Power Transformer
Voltage and Current Monitors
Mounting Rack
Shipping Case
Control Software
Laptop Computer

Additional Options Include:

- (1) Tank Spanning Member
- (2) Rotation Unit
- (3) Cable to Connect to Portable Calibration Unit
- (4) Sound Source
- (5) Reference Hydrophone



Typical Calibration System Technical Specifications:

Frequency Range	1 Hz to 400 kHz
Admittance	Yes
Maximum Drive Voltage	600 V
Maximum Amplifier Power	1kVa from 20 Hz to 20 kHz, reduced power outside the audio band
Digital Electronics	16 bit, all inputs simultaneously sampled
Beam Patterns	Rotational speed and angular resolution chosen by user
Data Output	Microsoft Excel file containing all parameters

Mechanical Specifications:

Weight	136 KG
Size	32" x 24" x 18"

* Other frequency ranges can be addressed; specifications subject to change based on requested frequency range.

Represented by:

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