



GeoSpectrum Technologies Inc.

High Static Pressure Calibration System, February 2015

GeoSpectrum Technologies recently delivered and commissioned a high static and dynamic pressure calibration system for testing hydrophone linearity to a customer in Europe.

This unit allows hydrophones to be calibrated in-air, rather than water. The high static pressure capability allows the simulation of the hydrophone-under-test being deployed at depths to 120 m. This robust calibrator is certified for 12 bar air pressure, is CE marked, is designed to the European Pressure Equipment Directive (PED), and designed and fabricated in accordance with ASME Boiler and Pressure Vessel Code Section VIII Div. I

The high dynamic pressure capability of the calibrator permits a very large sound pressure signal; greater than 209 dB re 1uPa. Calibration can be done over a wide frequency range with accurate results. Standard calibration can be performed from 0.1Hz to 200Hz, while the calibrator can be instrumented to calibrate up to 500Hz, at levels over 150 dB re 1uPa. Accuracies of 0.01 dB are possible at frequencies under 20Hz.



About GeoSpectrum Technologies Inc.

Geospectrum is a Dartmouth, Nova Scotia, Canada based supplier of marine acoustic hardware and systems, including transducers, hydrophones, arrays and surveillance software. The company supplies its products to the oil and gas, defence and surveillance and environmental sectors.

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