



HIGH TECH, INC.

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High Tech, Inc. is the exclusive worldwide manufacturer of the REFTEK-17 calibrated hydrophone pursuant to the license agreement with Refraction Technology, Inc.

REFTEK-17 CALIBRATED HYDROPHONE

The REFTEK-17 Calibrated Hydrophone is a low impedance precision instrument. A high quality ceramic element is insulated in an epoxy housing and the charge amplified is protected by a brass cylinder. Replaceable internal lithium batteries power the preamplifier and provide dependable low frequency response for one year.

Each REFTEK-17 Hydrophone is calibrated by the Naval Research Laboratory, Underwater Sound Reference Division, Newport, RI, U.S.A. A calibration certificate accompanies each Hydrophone.

Applications:

- Signature Monitoring Marine Energy Sources
- 1 Far Field
- 2 Near Field

Specifications:

- Sensitivity ----- Dual levels at 1 or 10 volt/bar
- Maximum Output Voltage ----- 2 volts peak
- 3dB Frequency Response ----- -2.6 to greater than 2000 Hz
- Pressure Sensitivity Response -- -0.2dB maximum per 1000 kilo pascals (100 meter water depth)
- Output Impedance ----- 50 ohms small signal
- Battery Voltage ----- Plus and minus 3 volts, self contained Lithium cells
- Battery Life ----- 1 year
- Weight ----- 2.5 pounds - 1125 grams
- Materials ----- Case - brass. Element - epoxy
- Connector ----- Environcon XSG-4BCL. Cablex bulkhead optional

Typical Calibration Chart---

Negative dB re
1 v/uPa

Freq. (Hz)	25 kPa (2.5m)	500 kPa (51m)	1.0 MPa (102m)	2.0 MPa (205m)	3.5 MPa (357m)	6.0 MPa (612m)
5	-219.2	-220.1	-220.2	-220.3	-220.4	-220.4
10	-220.0	-220.2	-220.1	-220.3	-220.4	-220.4
25	-220.2	-220.1	-220.2	-220.3	-220.2	-220.3
50	-220.1	-220.1	-220.4	-220.2	-220.3	-220.2
100	-220.2	-220.2	-220.2	-220.3	-220.1	-220.3
250	-220.1	-220.2	-220.1	-220.3	-220.2	-220.3
500	-219.2	-220.3	-220.2	-220.1	-220.3	-220.2

