

## HM Hydrophones

The HM Series membrane hydrophones are designed for measuring pulsed ultrasound fields. Their extremely flat sensitivity results in the best reproduction of acoustic waveforms. Version A is the traditional hydrophone configuration, and a more rugged version B prevents membrane vibration during scanning motion. Version A is recommended for high power ultrasound work, where the absorption of energy by the backing could result in damage to the hydrophone. Both types are excellent choices as in-house primary or secondary standard, and for general purpose field mapping.

### Features

- Rugged
- High Sensitivity
- Broadband
- Sealed design
- Integral preamplifier
- Choice of aperture sizes

### Models

- HMA — free membrane
- HMB — backed membrane

### Technical Specifications

	HMA-0200	HMA-0500	HMB-0200	HMB-0500
<b>Frequency range (<math>\pm 3\text{dB}</math>)</b>	0.5 to 45 MHz			
<b>Nominal Sensitivity [dB re 1V/<math>\mu\text{Pa}</math>] *</b>	-260	-248	-256	-244
<b>Nominal Sensitivity [nV/Pa]</b>	100	398	158	631
<b>Max Pressure (p-p) within Linearity Range of Integral Preamp (MPa) **</b>	53	12	25	7
<b>Output Impedance</b>	50 $\Omega$			
<b>Max. Operating Temperature</b>	40 °C			

\* Provided with traceable calibration 1-20 MHz at 50 KHz intervals. For other calibrations available visit our web site.

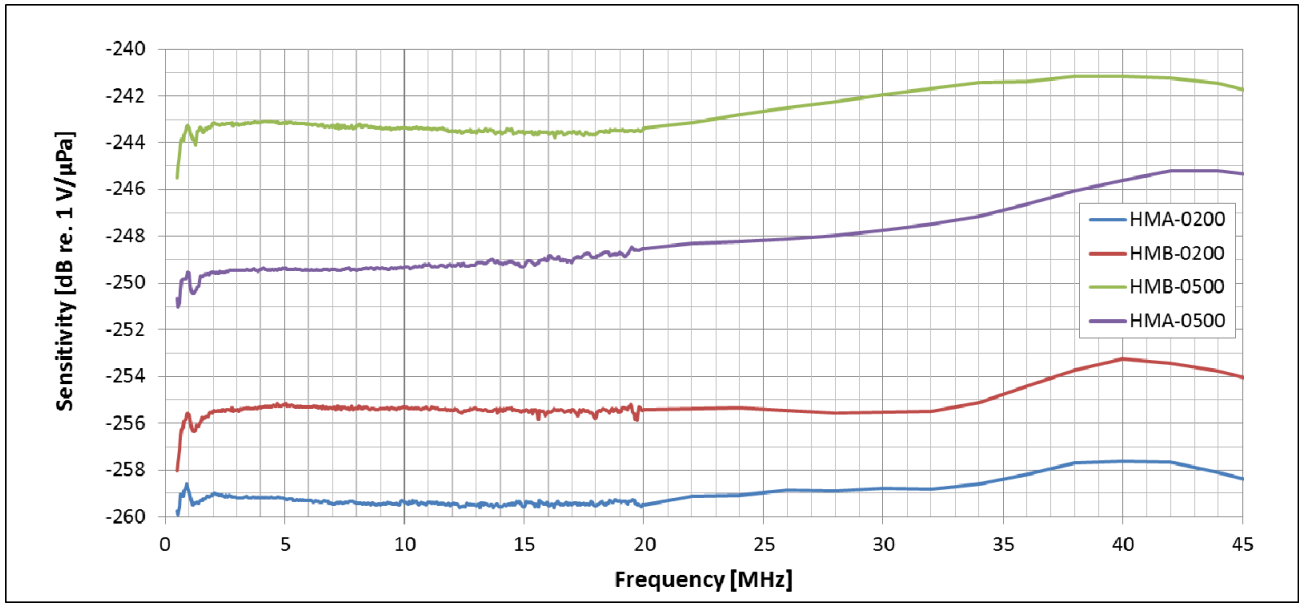
\*\* Based on criterion defined by the International Electrotechnical Commission (IEC)

Specifications are subject to change without notice.

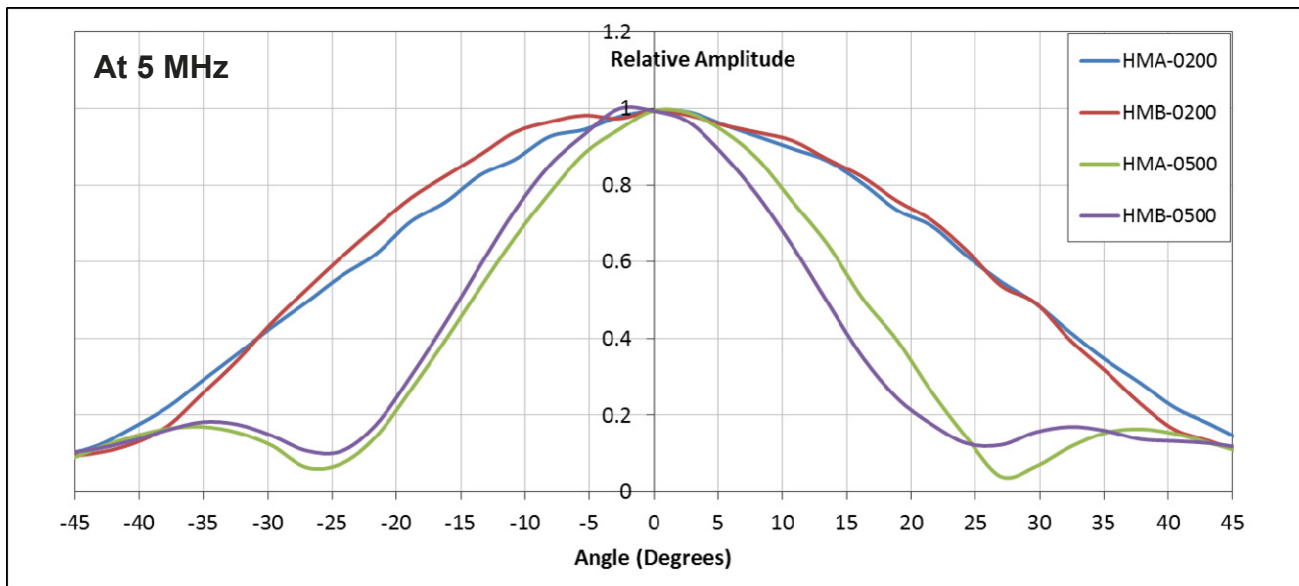


HM Hydrophone

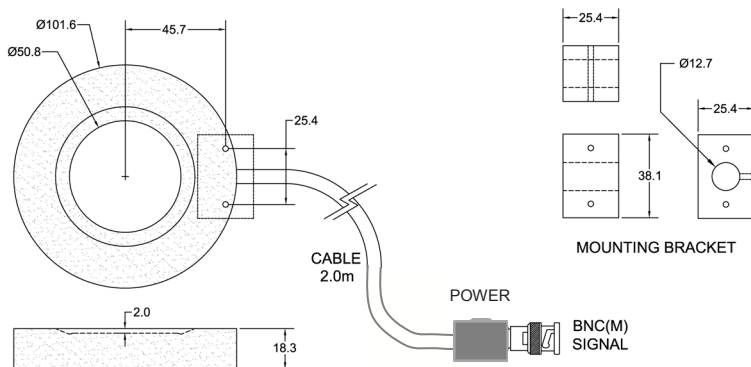
## Typical Sensitivity Plot



## Typical Directivity Plot



## Mechanical



Universal Power Supply Included