

- TRUE SPHERICAL RESPONSE
- LOW NOISE PERFORMANCE
- ACOUSTIC REFERENCE STANDARD
- HIGH PERFORMANCE
- RESPONSE UP TO 400 kHz
- DOUBLE-SCREENED CABLE



The D/300 miniature high frequency hydrophone is a versatile acoustic sensor with a wide range of underwater sound applications ranging from near field monitor systems to high frequency calibration.

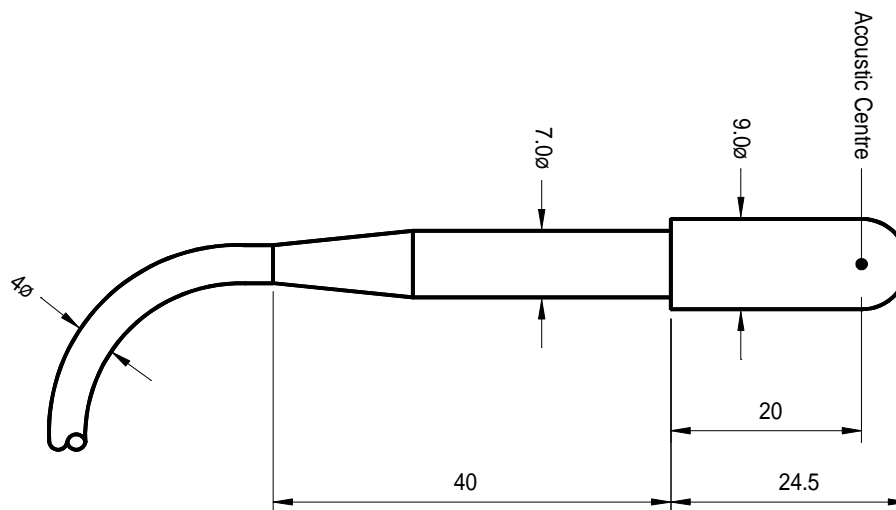
Available with or without a certified acoustic calibration the single piezo - ceramic element retains an excellent spherical beam pattern up to 350 kHz.

The robust construction of the D/300 enables it to operate at depths down to 700 metres.

The sensor element is encapsulated in a tough polyurethane envelope moulded directly onto the cable. This construction achieves accurate alignment of the acoustic centre whilst providing good vibration isolation between the element and the mounting stalk.

Electrical connection is by a double screened, low noise coaxial cable with a polyurethane outer sheath.

The D/300 is available as a calibrated or un-calibrated device with all calibrations traceable to National Standards.



All dimensions in mm

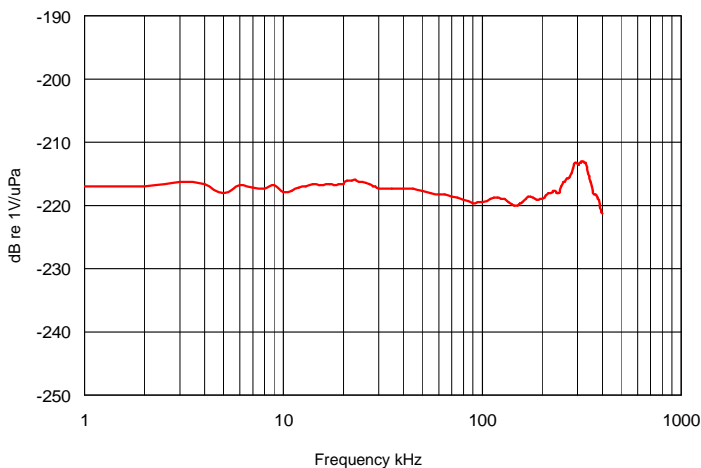
MODEL D/300

Miniature Hydrophones

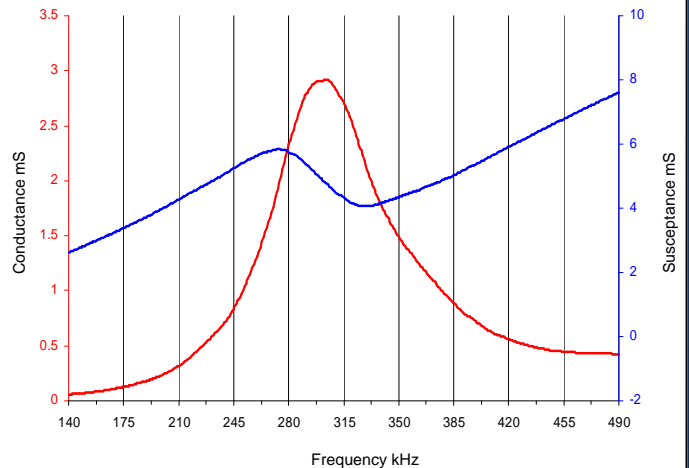
Technical Specification

Resonant Frequency	300 kHz (Nominal)
Beam Pattern Circumferential	Omni ± 2 dB at 150kHz
Beam Pattern Horizontal	270° ± 3 dB at 150kHz
Receive Sensitivity	See Graph
Transmit Sensitivity	See Graph
Capacitance at 1 kHz	2800 pF
Operating Depth	700 Metres
Operating Temperature	-5 to +40 °C
Storage Temperature	-40 to +80 °C
Cable Type	Polyurethane \varnothing 4mm Double Screened Low Noise Coaxial
Cable Length	10 metres standard Additional lengths supplied to order

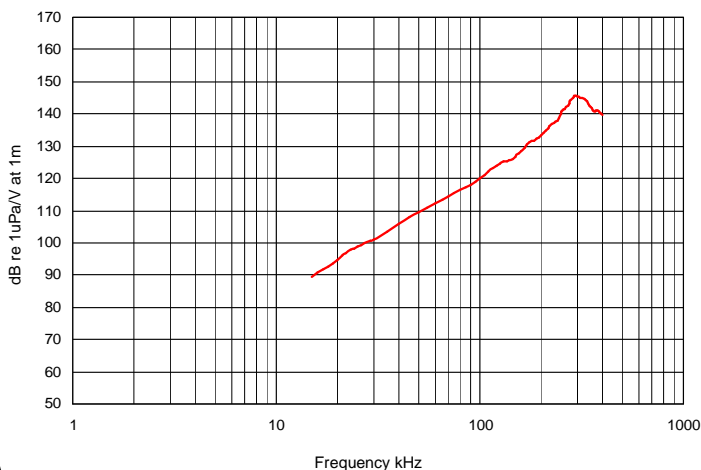
Receive Graph



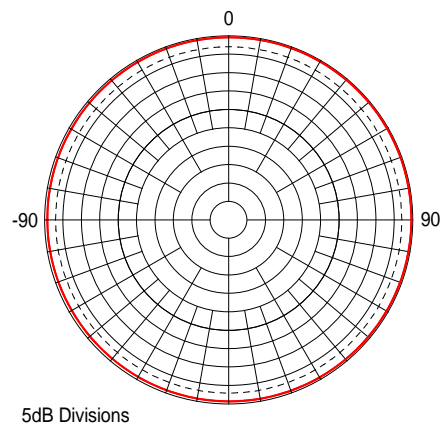
Admittance Plot



Transmit Graph



Beam Pattern at 300 kHz



Data illustrated is taken from actual in-water measurements