

- 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.

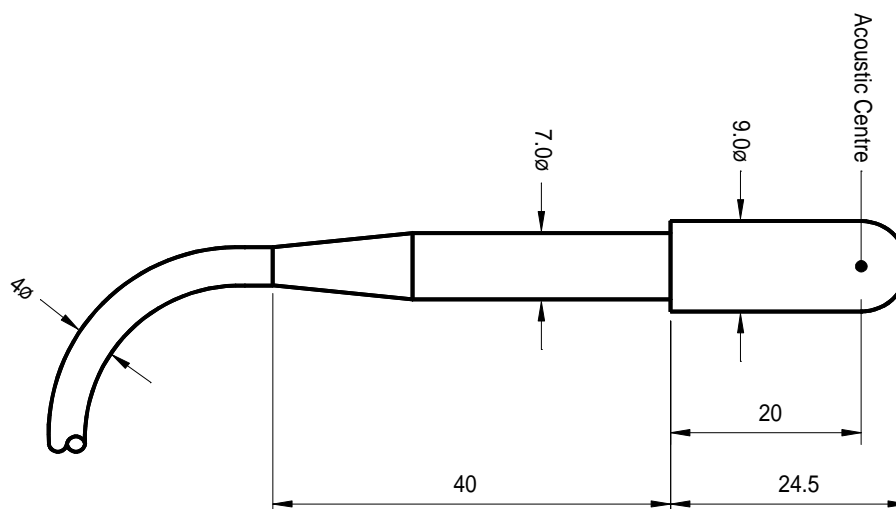
Available with or without a certified acoustic calibration the single piezo - ceramic element retains an excellent spherical beam pattern up to 350 kHz.

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

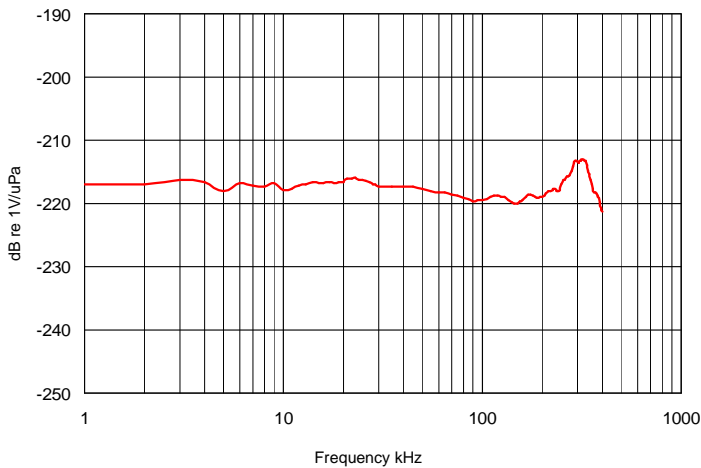
MODEL D/300

Miniature Hydrophones

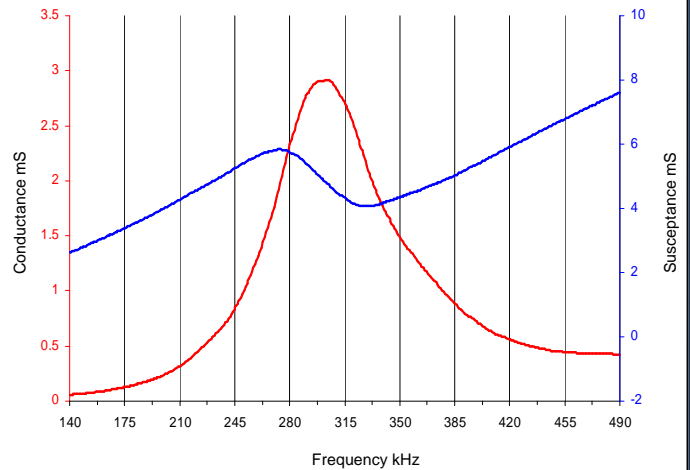
Technical Specification

| | |
|------------------------------|--|
| 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 |

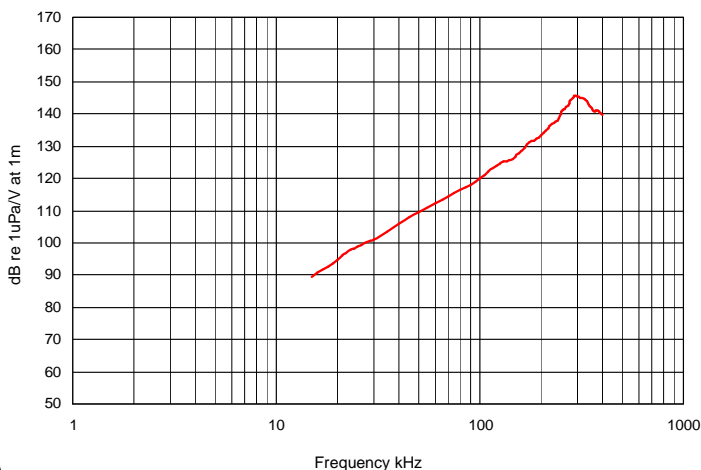
Receive Graph



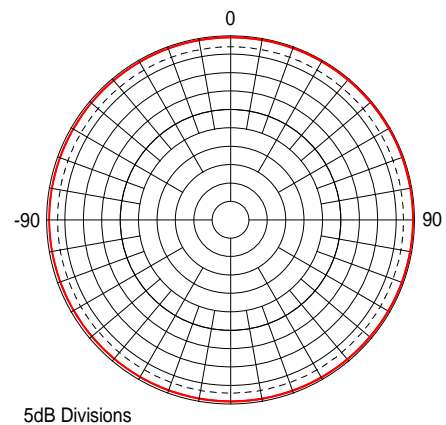
Admittance Plot



Transmit Graph



Beam Pattern at 300 kHz



Data illustrated is taken from actual in-water measurements