

- OMNI-DIRECTIONAL RESPONSE
- LOW NOISE PERFORMANCE
- ACOUSTIC REFERENCE STANDARD
- BROADBAND OPERATION
- AIR GUN & BOOMER MONITOR
- MARINE MAMMAL AUDIO SENSOR



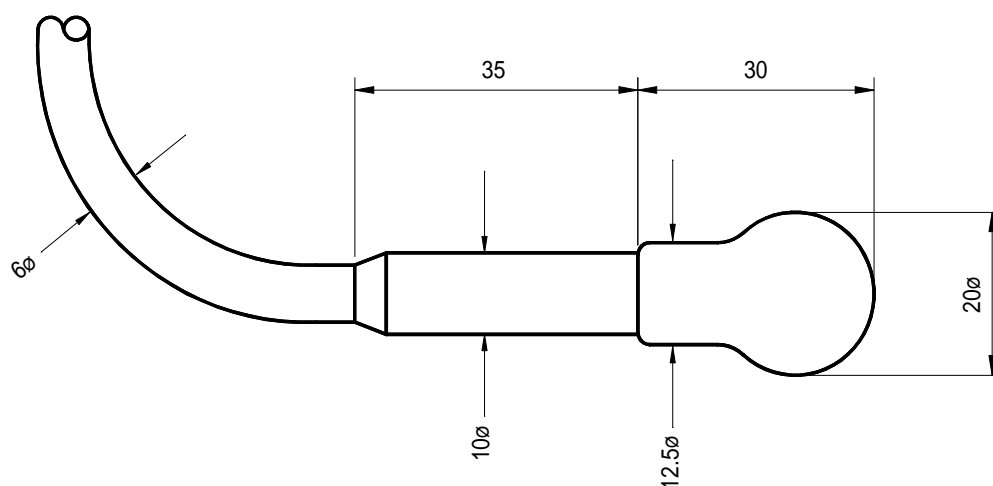
The D/I40 is one of a group of spherical transducers exhibiting a combination of broadband frequency response, omni-directional beam pattern and high sensitivity.

A versatile transducer with a wide range of receiving and transmitting applications the D/I40 is equally at home as a cost effective, general purpose hydrophone or as a precision acoustic sensor.

The all moulded construction coupled with the inherent strength of the PZT ceramic sphere achieves a lightweight, corrosion free and extremely robust design making it the ideal choice as a monitor hydrophone.

The outer jacket of both the cable and moulded stalk are in a polyurethane material, enabling the transducer to be potted directly into customised equipment pods or underwater connectors.

The D/I40 is available with or without acoustic calibration. All calibrations are traceable to National Standards.

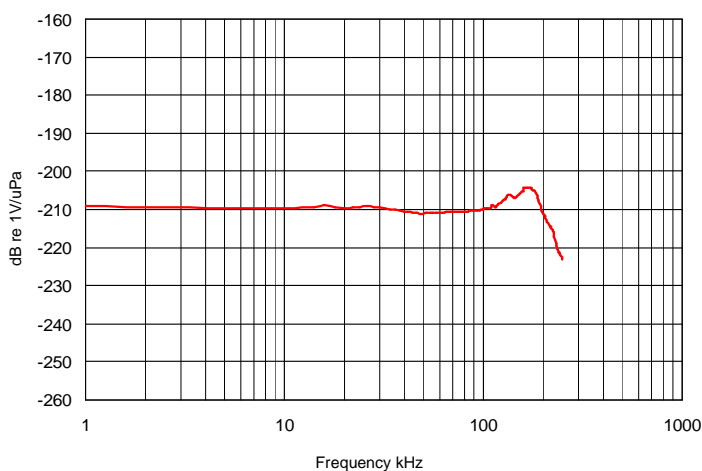


All dimensions in mm

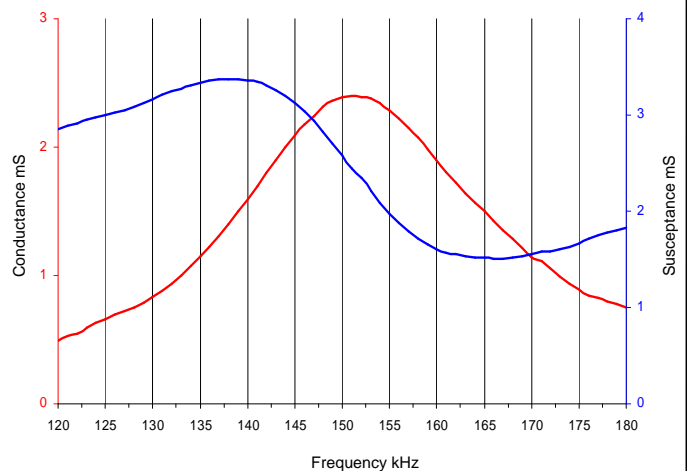
### Technical Specification

Resonant Frequency	150 kHz (Nominal)
Beam Pattern	Omni $\pm 2$ dB up to 160kHz
Receive Sensitivity	See Graph
Transmit Sensitivity	See Graph
Capacitance at 1 kHz	3500pF
Input Power	100 Watts around resonance
Operating Depth	1500 Metres
Operating Temperature	-5 to +40°C
Storage Temperature	-40 to +80°C
Cable Type	Polyurethane Ø6mm Low Noise Coaxial
Cable Length	10 metres standard Additional lengths supplied to order

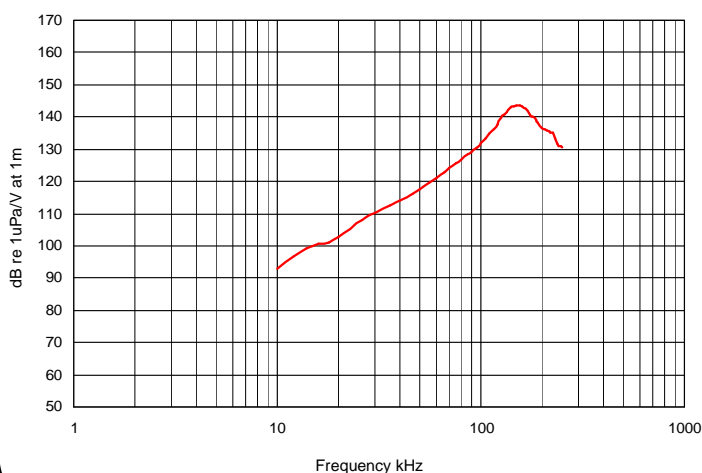
Receive Graph



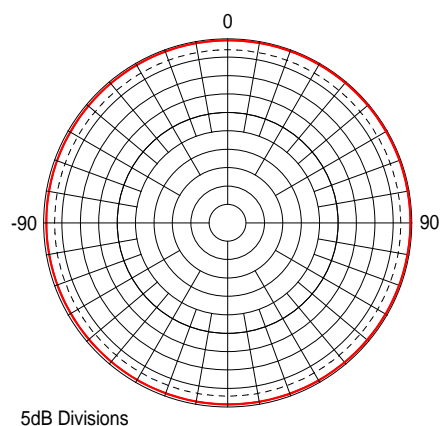
Admittance Plot



Transmit Graph



Beam Pattern at 150 kHz



Data illustrated is taken from actual in-water measurements