

- OMNI-DIRECTIONAL RESPONSE
- EFFICIENT TRANSMITTER
- OCTAVE BANDWIDTH OPTION
- BROADBAND OPERATION
- HIGH POWER PROJECTOR
- DEEP WATER CAPABILITY



The D/II spherical transducer provides highly efficient, omni-directional receive and transmit beam patterns.

With a resonant frequency of 11 kHz and a useful operating bandwidth from 6 kHz to 20kHz the design is particularly suitable as a broadband noise source or for long range voice and data communications systems.

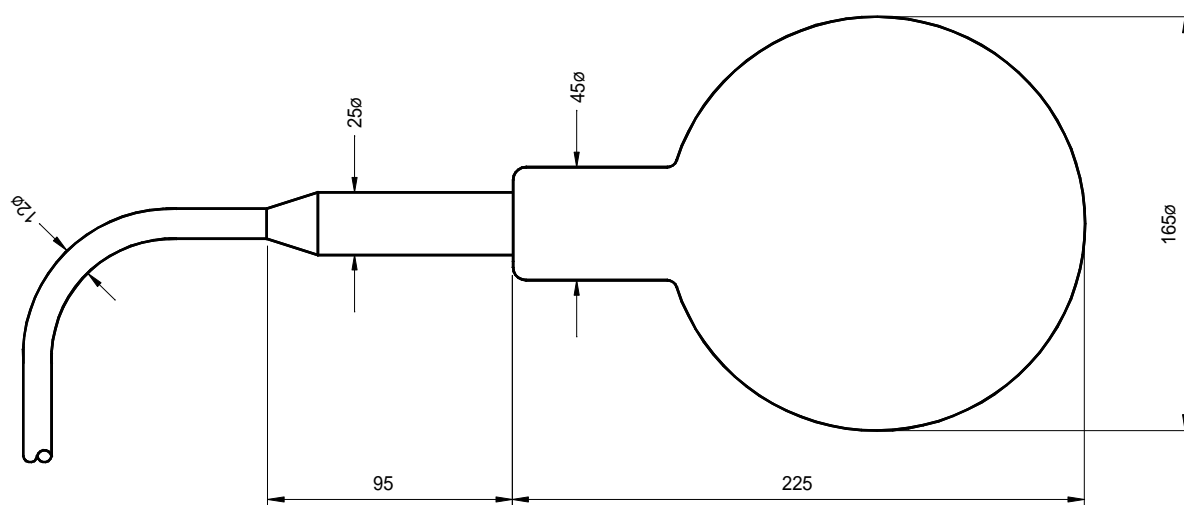
The transducer is extremely robust and able to withstand severe levels of underwater explosive shock.

Electrical connection to the transducer is by a twisted pair screened cable. The outer jacket of the cable is extruded polyurethane that enables the transducer to be built into customised equipment packages and readily obtain a waterproof design by simple moulding techniques.

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

Wideband Version

A broadband version of this transducer is available (see page 55 & 56 Model D/II/BB). Utilising an internal passive matching network to achieve a 3dB bandwidth from 8 kHz to 19 kHz.



All dimensions in mm

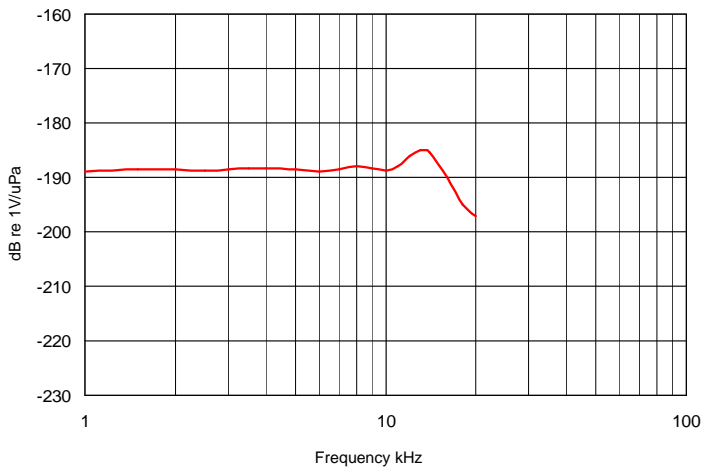
MODEL D/II

Spherical Projectors

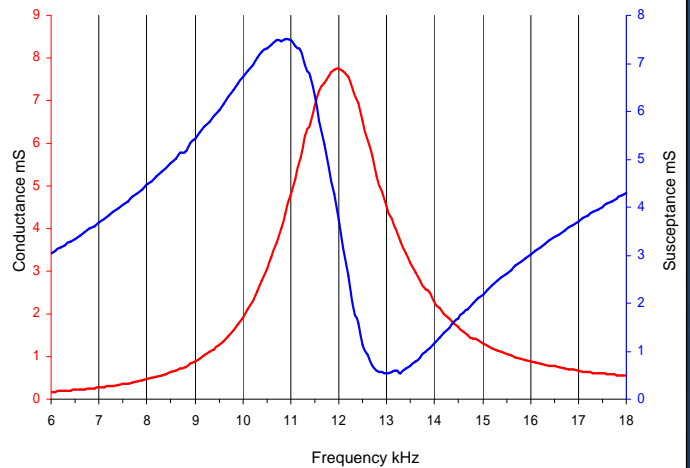
Technical Specification

Resonant Frequency	11 kHz (Nominal)
Beam Pattern	Omni ± 1 dB up to 18 kHz
Receive Sensitivity	See Graph
Transmit Sensitivity	See Graph
Capacitance at 1 kHz	86,000 pF
Input Power	3000 Watts around resonance
Operating Depth	2000 Metres
Operating Temperature	-5 to +40 °C
Storage Temperature	-40 to +80 °C
Cable Type	Polyurethane $\varnothing 12$ mm 2 Core Screened
Cable Length	10 metres standard Additional lengths supplied to order

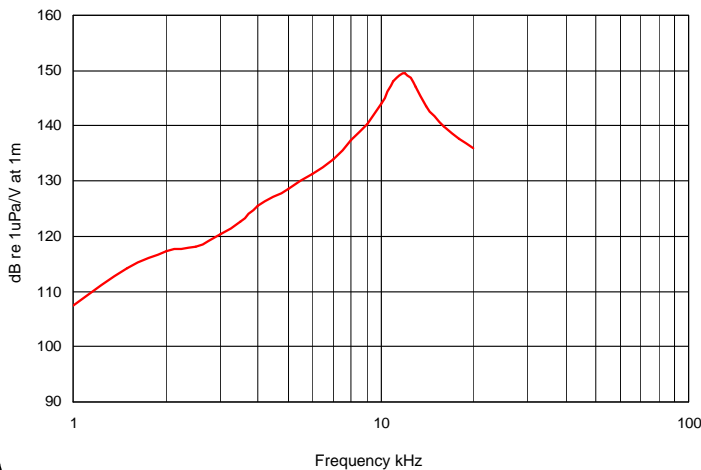
Receive Graph



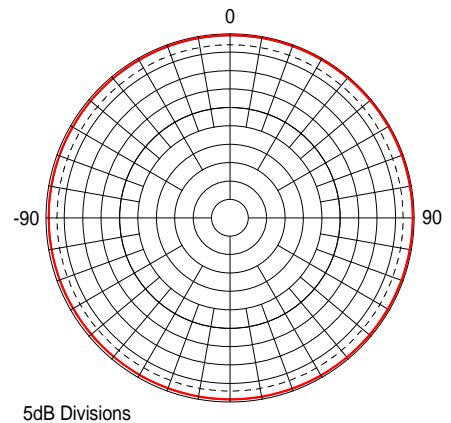
Admittance Plot



Transmit Graph



Beam Pattern at 11 kHz



Data illustrated is taken from actual in-water measurements