

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

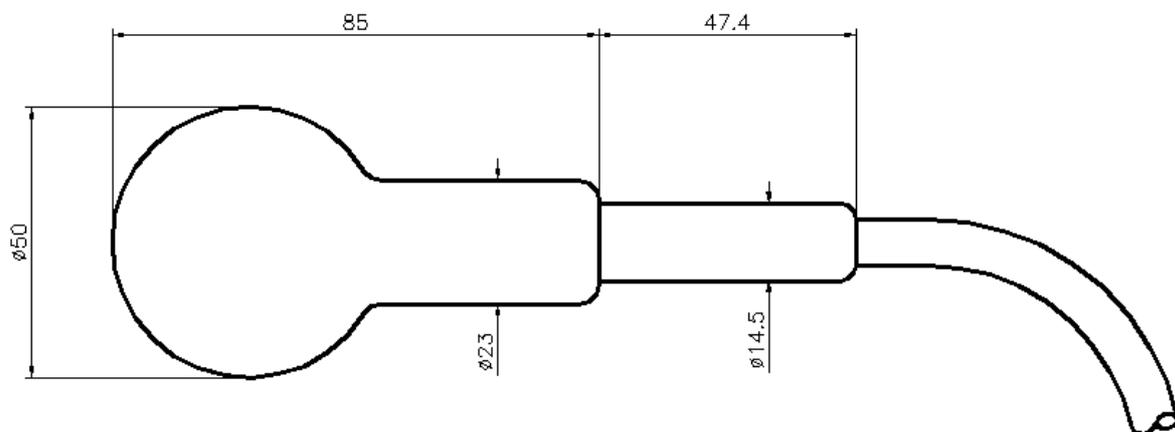


The D/45 spherical transducer is a versatile design providing omni-directional transmit and receive characteristics over a wide frequency range.

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

Electrical connection to the transducer is by a screened twisted pair cable with an extruded polyurethane outer jacket. This enables the systems engineer to configure the transducer directly into customised equipment packages using simple moulding techniques.

The D/45 is available with or without acoustic calibration. All calibrations are traceable to National Standards.

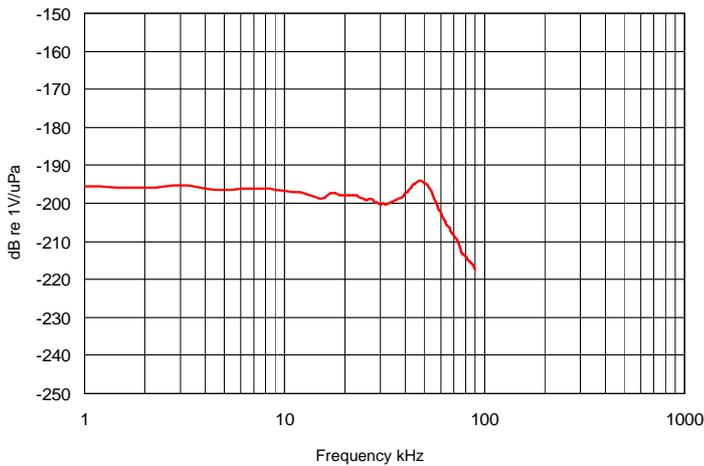


All dimensions in mm

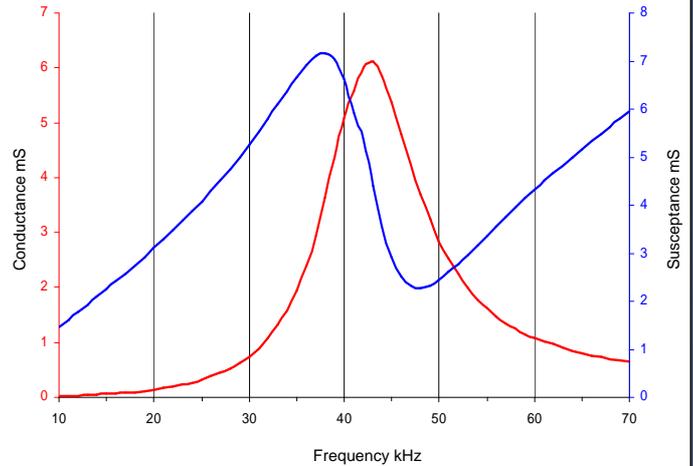
Technical Specification

Resonant Frequency	45 kHz (Nominal)
Beam Pattern	Omni \pm 1 dB up to 55 kHz
Receive Sensitivity	See Graph
Transmit Sensitivity	See Graph
Capacitance at 1 kHz	22.000 pF
Input Power	725 Watts around resonance
Operating Depth	2000 Metres
Operating Temperature	-5 to +40 °C
Storage Temperature	-40 to +80 °C
Cable Type	Polyurethane \varnothing 9mm Twin Screened
Cable Length	10 metres standard Additional lengths supplied to order

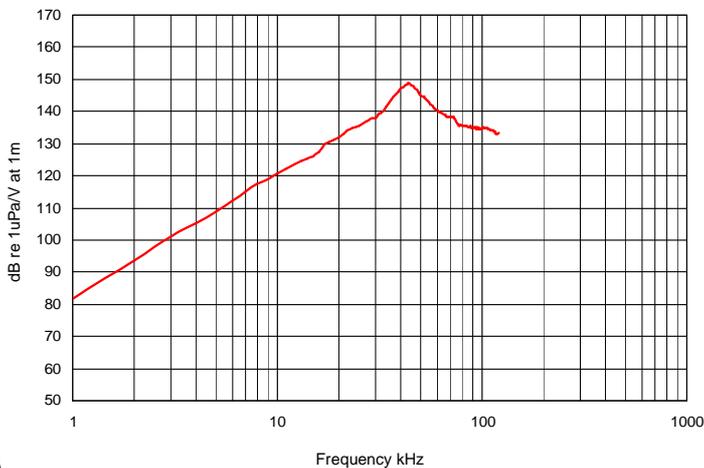
Receive Graph



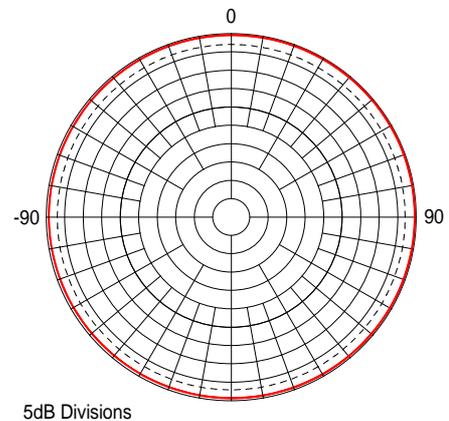
Admittance Plot



Transmit Graph



Beam Pattern at 45 kHz



Data illustrated is taken from actual in-water measurements