

- INTEGRAL PRE-AMPLIFIER
- OMNI-DIRECTIONAL RESPONSE
- LOW NOISE PERFORMANCE
- BROADBAND OPERATION
- MARINE MAMMAL AUDIO SENSOR
- MAXIMUM CABLE LENGTH 500 MTS

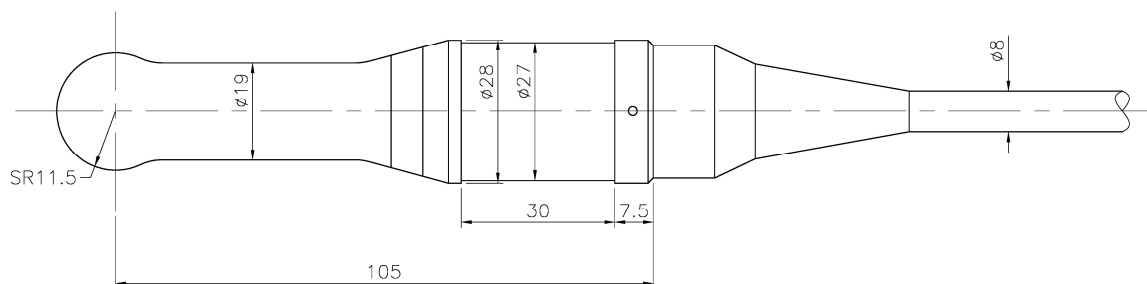


The D/I40/H is a true spherical balanced element combined with a low noise differential pre-amplifier with gain options of 20, 30 and 40dB.

The hydrophone is moulded in polyurethane. Two of the cores are used for supplying the 24 volt power with the other screened pair providing the differential output signal.

The proximity of the amplifier to the hydrophone element allows the signals to be transmitted along long lengths of cable (up to 500 metres) without suffering any degradation.

The differential output also improves the signal to noise ratio and extends the upper frequency cut-off. The gain of the amplifier can be adjusted to suit customers requirements with an additional 20dB from the optional 'Surface Receiver Unit' which can be supplied separately.



All dimensions in mm

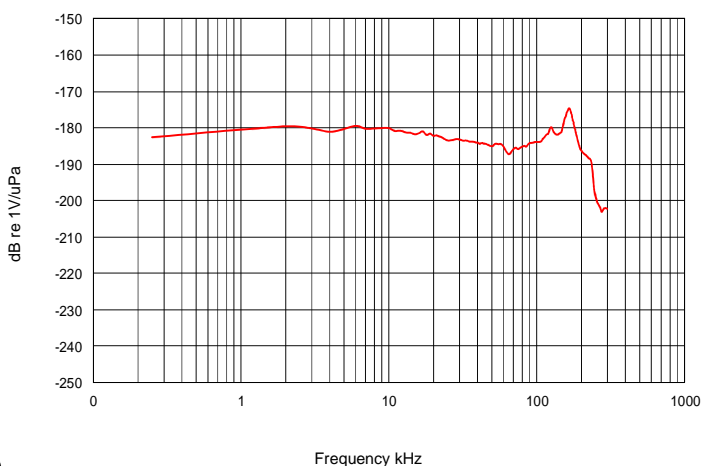
MODEL D/I40/H

Hydrophone with Pre-Amplifier

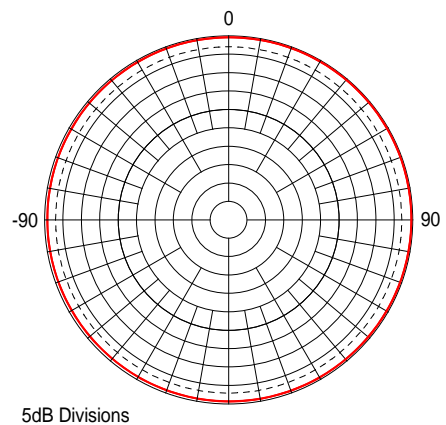
Technical Specification

Resonant Frequency	150 kHz (Nominal)
Usable Frequency Range	10 Hz to 190 kHz
Beam Pattern	Omni ± 2 dB up to 180 kHz
Receive Sensitivity	See Graph
Pre-Amplifier Gain (Pre-Set)	20, 30 or 40dB
Power Supply	12 to 28 Volts DC @ <100mA
Signal Output	Differential
Operating Depth	1500 Metres
Operating Temperature	-5 to +40 °C
Storage Temperature	-40 to +80 °C
Cable Type	Polyurethane Outer Sheath Power 2 Cores Signal Twisted Screened Pair
Cable Length	10 metres standard Additional lengths supplied to order
Optional: Surface Receiver Unit	Input (Differential - Hydrophone) Output (Single Ended) Power Supply Input Gain Switch - 0dB or additional 20dB

Receive Graph with 20dB Gain



Beam Pattern at 150 kHz



Data illustrated is taken from actual in-water measure-