

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

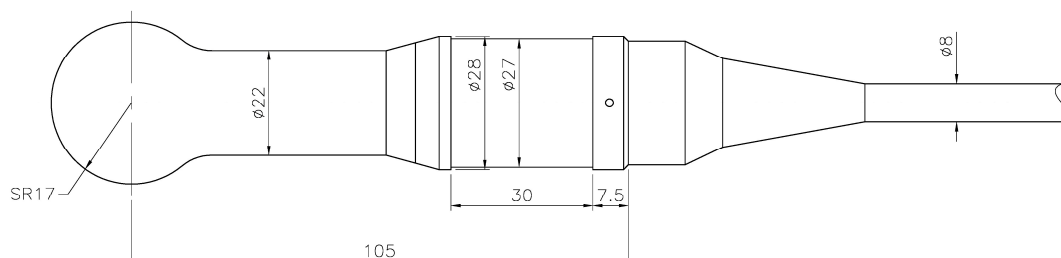


The D/70/H is a true spherical balanced element combined with a low noise differential pre-amplifier with gain options of 20, 30 and 40dB.

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

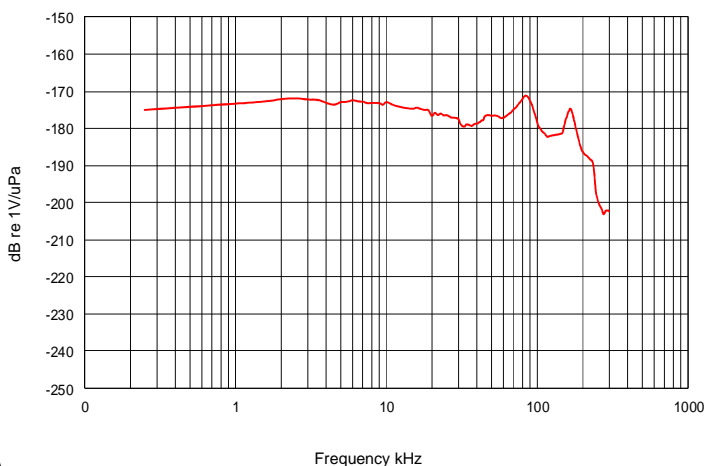
# MODEL D/70/H

## Hydrophone with Pre-Amplifier

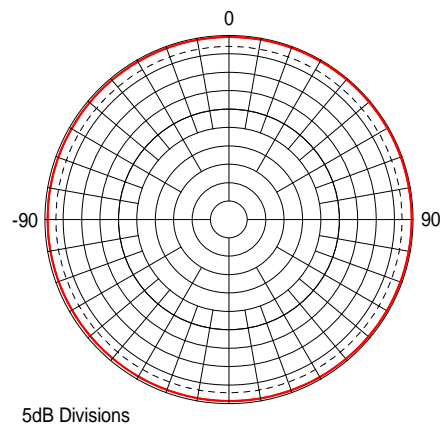
### Technical Specification

Resonant Frequency	70 kHz (Nominal)
Usable Frequency Range	5 Hz to 120 kHz
Beam Pattern	Omni $\pm 2$ dB up to 100 kHz
Receive Sensitivity	See Graph
Pre-Amplifier Gain (Pre-Set)	20, 30 or 40 dB
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 70 kHz



Data illustrated is taken from actual in-water measurements