

MODEL D/70/H

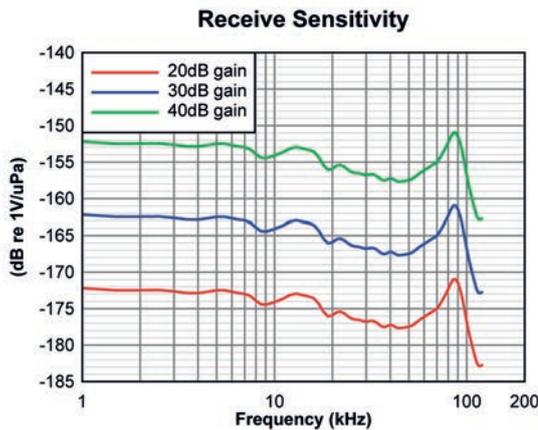


- **INTEGRAL PRE-AMPLIFIER**
- **MAXIMUM CABLE LENGTH 500M**
- **OMNI-DIRECTIONAL RESPONSE**
- **LOW NOISE PERFORMANCE**
- **BROADBAND OPERATION**
- **MARINE MAMMAL AUDIO SENSOR**

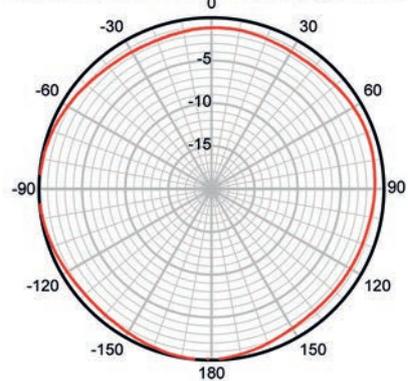
The D/70/H is a true spherical and balanced element combined with a low noise differential pre-amplifier. Signals can be transmitted along cable lengths up to 500m, without any degradation. The pre-amplifier gain options of 20, 30 and 40 dB (are pre-set during manufacture) to suit the customer requirements.

A differential to single ended Surface Receiver (Model T400) which includes additional filter and gain settings, can be supplied separately. See accessories.

The D/70/H is available with or without acoustic calibration, traceable to National Standards.



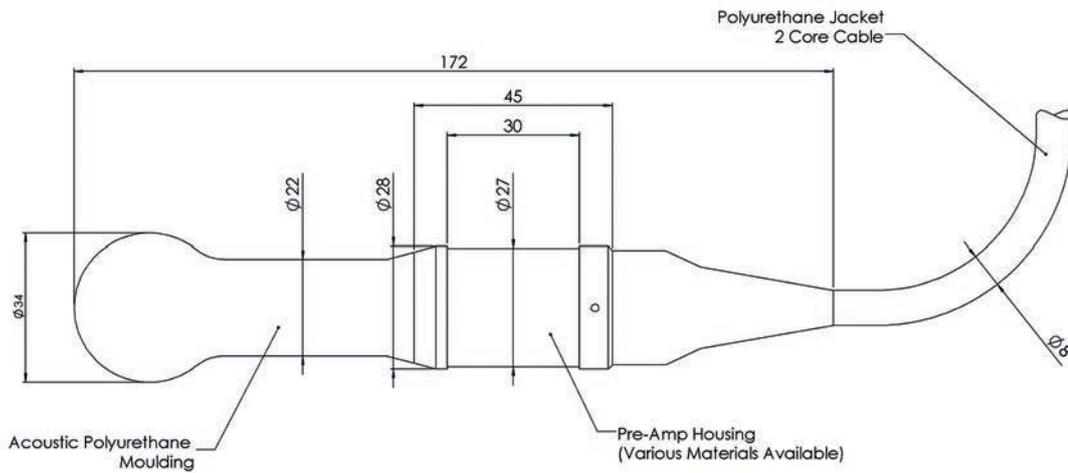
Horizontal Beam Pattern @ 70kHz



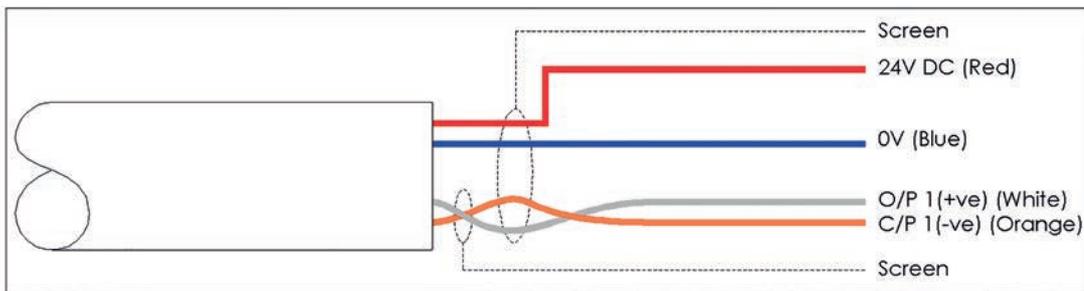
TECHNICAL SPECIFICATION

Resonant Frequency (Nominal)	70 kHz
Usable Frequency Range	5 Hz to 100 kHz
Beam Pattern Horizontal	Omni ±2 dB at 80kHz
Beam Pattern Vertical	240° ±3 dB at 80kHz
Output	Differential, 100Ω Impedance
Receive Sensitivity	-173 dB re 1V/μPa with 20dB gain
Gain is pre-set and cannot be adjusted.	-163 dB re 1V/μPa with 30dB gain
	-153 dB re 1V/μPa with 40dB gain
Power Supply	+20 to +30 Volts dc @ <100mA 25mA quiescent, 100mA (Max)
Noise	<3nV/√Hz RTI

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All dimensions in mm



MECHANICAL SPECIFICATION

Operating Depth	900m Standard (Optional 1500m - may require an export license)
Weight Air/Water (with 10m cable)	0.80 kg / 0.22 kg (Nylon)
Operating Temperature	-5 to +40 °C
Storage Temperature	-40 to +80 °C
Cable Type	Polyurethane $\phi 8$ mm Twisted Pair (power) and Screened Twisted Pair (signal)
Cable Length	10m Standard (Additional lengths supplied to order)
Connector	Not fitted as standard (Souriau type if used with T400 Surface Receiver)