Hydrophone TC4034 Ultra Broad-band Spherical



- Omnidirectional in the full frequency range
- Long term stability
- Extreme Wide frequency range
- Durable construction
- Individually calibrated

TC4034

The TC4034 broad band spherical hydrophone provides uniform omnidirectional characteristics over a wide frequency range of 1Hz to 480kHz.

The overall receiving characteristics makes the TC4034 an ideal transducer for making absolute underwater sound measurements up to 480kHz. The wide frequency range also makes the TC4034 perfect for calibration purposes, particularly in higher frequencies.

TECHNICAL SPECIFICATIO	ONS
Usable Frequency range:	1Hz to 470kHz (+3, -10dB)
Linear Frequency range:	1Hz to 250kHz (+2, -4dB)
Receiving Sensitivity: (re 1V/µPa)	-218dB ±3dB (at 250Hz)
Horizontal directivity:	Omnidirectional ±2dB (at 100 kHz)
Transmitting sensitivity:	122dB ±3dB (typical) re 1µPa/V at 1m at 100kHz
Vertical directivity:	>270° ±3dB (at 300kHz)
Nominal Capacitance:	3nF
Operating Depth:	900m
Survival Depth:	1000m
Operating Temperature range:	-2°C to +80°C
Storage Temperature range:	-40°C to +80°C
Weight incl. cable,(in air):	1.6 kg
Cable (length and type):	Standard 10m shielded pair DSS-2MIL-C915. Optional cable length available on request
Encapsulating Material:	Special formulated NBR
Metal body:	Alu-bronze - AlCu10Ni5Fe4
Connector type:	BNC



NBR means Nitrile Rubber

The NBR rubber is first of all resistant to sea and fresh water but also resistant to oil. It is limited resistant to petrol, limited resistant to most acids and <u>will be destroyed</u> by base, strong acids, halogenated hydrocarbons (carbon tetrachloride, trichloroethylene), nitro hydrocarbons (nitrobenzene, aniline), phosphate ester hydraulic fluids, Ketones (MEK, acetone), Ozone and automotive brake fluid.



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Documentation:

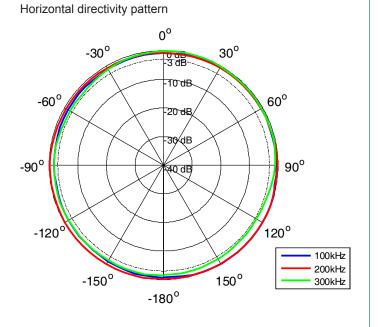
Vertical directivity: At 250 kHz 100,200,300 kHz

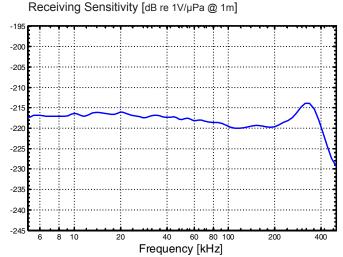
Horizontal directivity: At 100, 200, 300 kHz Impedance: 5 kHz to 500 kHz

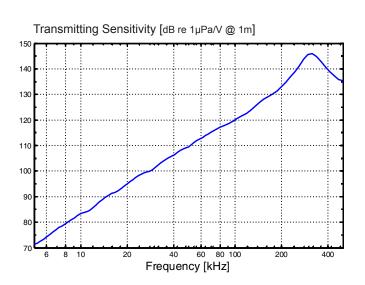
Receiving sensitivity:

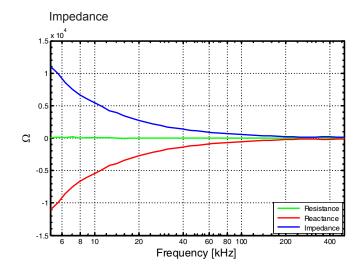
5 kHz to 500 kHz

Transmitting sensitivity: 5 kHz to 500 kHz









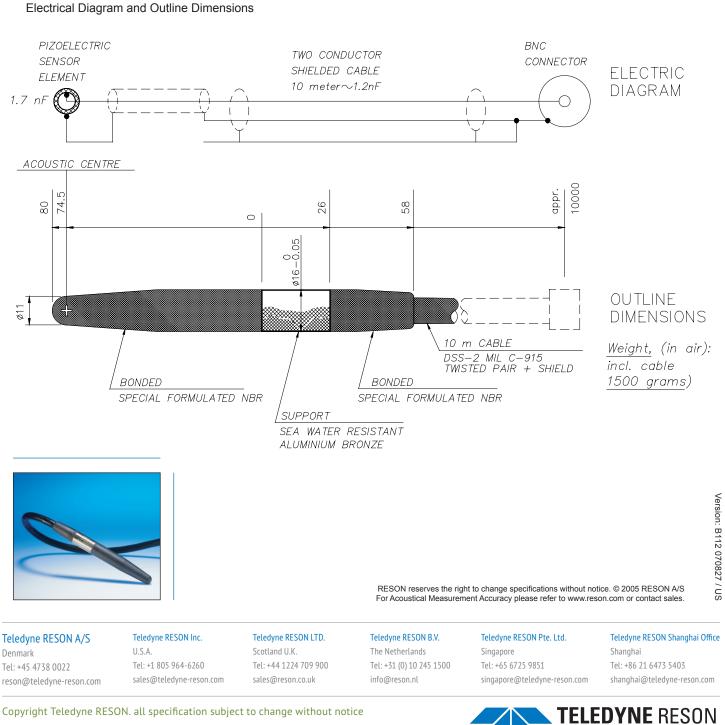


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Everywhere**you**look"

Documentation:

The hydrophone is permanently encapsulated in Special formulated NBR to provide long term reliability. The rubber has been specially compounded to ensure an acoustic impedance close to that of water. The TC4034 is supplied with an integral water blocked two conductor shielded cable, type DSS-2, which complies with Mil C915



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