

TC4034



The TC4034 broad band spherical hydrophone provides uniform omnidirectional characteristics over a very 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 480 kHz. The wide frequency range also makes the TC4034 perfect for calibration purposes, particularly in higher frequencies.

FEATURES

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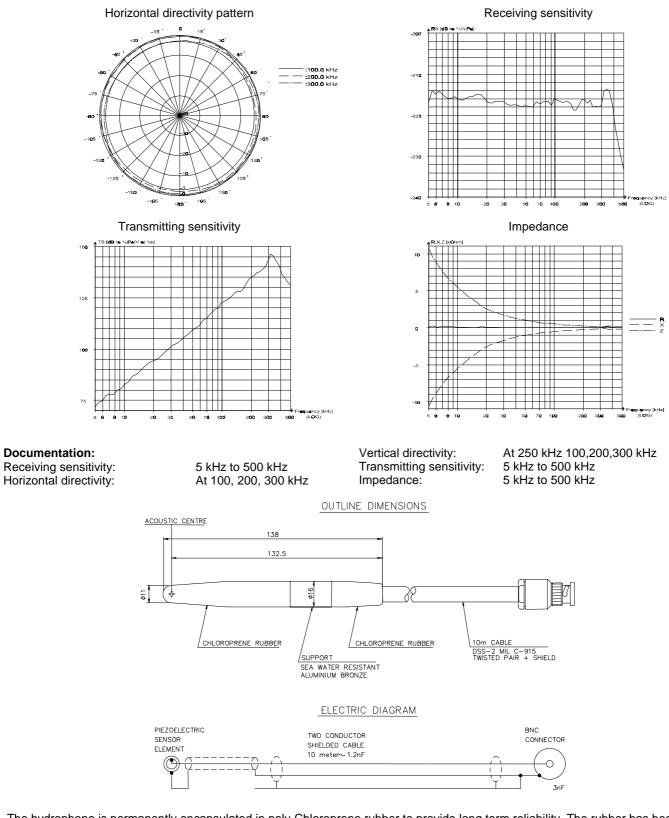
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TECHNICAL SPECIFICATIONS

Omnidirectional in the	Usable Frequency		Operating Depth:	900 m
full frequency range	range:	1 Hz to 470 kHz	operating Deptin	000 111
Law a tamp at ability		(+3, -10 dB)	Survival Depth:	1000 m
Long term stability	Linear Frequency	1 Hz to 250 kHz	Operating	
Extreme Wide frequency range	range:	(+1, -4 dB)	Temperature range:	-2°C to +80°C
	Receiving Sensitivity:	-218 dB ±3 dB	Storage	
Durable construction	(re 1V/μPa)	(at 250 Hz)	Temperature range:	-40°C to +80°C
Individually calibrated	Horizontal directivity:	Omnidirectional	Weight incl. cable,	
		±2 dB (at 100 kHz)	(in air):	1.6 kg
		, , , , , , , , , , , , , , , , , , ,	Cable:	10m shielded pair
	Transmitting sensitivity:	122 dB ±3 dB re 1μPa/V at 1 m at	(length and type)	DSS-2MIL-C915
	Sensitivity.	100 kHz	Encapsulating	
			Material:	Chloroprene
	Vertical directivity:	>270° ±3 dB (at 300 kHz)	Metal body:	Alu-bronze
	Nominal Capacitance:	3 nF	Connector type:	BNC



Typical graphs



The hydrophone is permanently encapsulated in poly-Chloroprene rubber 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 10 meter water blocked two conductor shielded cable, type DSS-2, which complies with Mil C915.



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