



CTG0791 HYDROPHONE WITH PRE-AMP

TYPICAL APPLICATIONS

- Remote monitoring
- Marine mammal audio sensor
- Air gun & boomer monitor



FEATURES

The CTG0791 acoustic transducer is a low noise hydrophone offering exceptional $-157\text{dB re } 1\text{V}/\mu\text{Pa}$ performance over a wide band. Combine this with excellent self noise figures, low distortion and temperature sensitivity and the CTG0791 receiver provides a high performance solution for monitoring underwater sound from 10Hz up to 150kHz.

The integral pre-amplifier is encased in a sealed aluminium tube then, with the hydrophone, is over-moulded in polyurethane, which provides excellent protection from impact. Within the electronics, provision is made for a calibration signal allowing the user to test system integrity before use.

ADVANTAGES

- Integral pre-amp
- Broadband operation
- Low noise performance
- Omni-directional response

OPTIONS

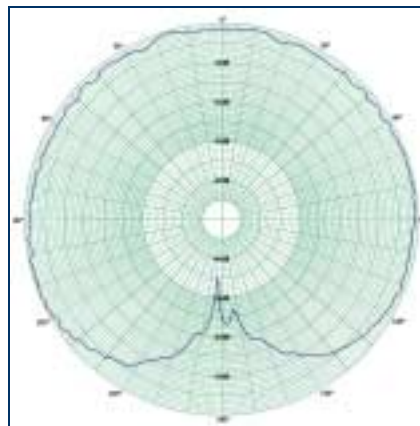
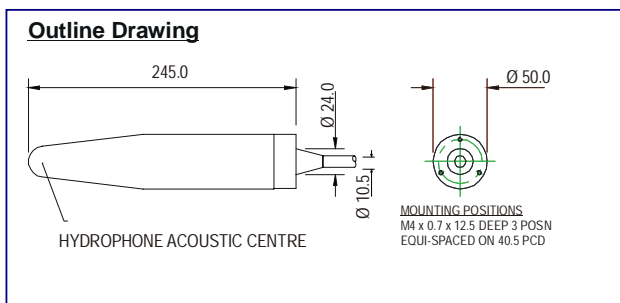
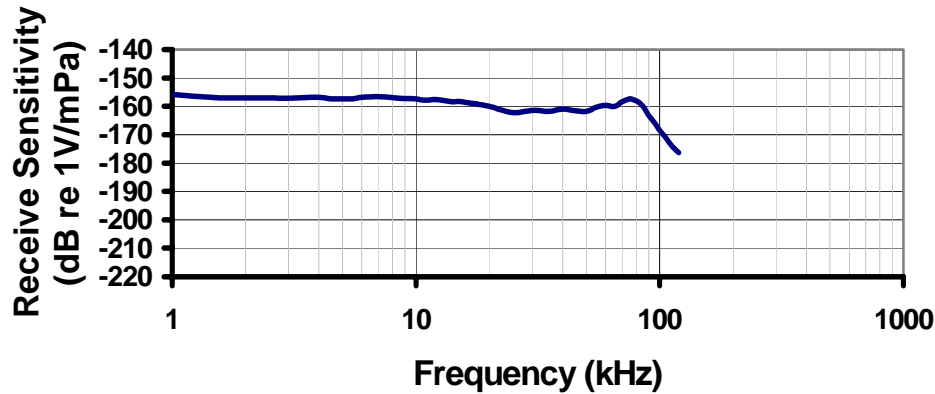
Also available without pre-amplifier allowing customers to use their own electronics. The device can be used as a projector with tuning and matching in the housing.

TECHNICAL SPECIFICATION CTG0791

Nominal Resonant Frequency	75	kHz
Bandwidth	-	kHz
Transmit Sensitivity	-	dB re 1 μ Pa/V@1m @ kHz
Receive Sensitivity	-157	dB re 1V/ μ Pa @10kHz
Useable Frequency Range	10-150	kHz
Linear Frequency Range	See Graph	kHz
Horizontal Beam Pattern	Omni directional	\pm 1 dB
Vertical Beam Pattern	See Graph	\pm 1 dB
Capacitance	14	nF
Maximum Input Voltage	N/A	Vrms
Pre Amp Type	Diff in/Diff out	Voltage
Maximum Acoustic Level	162	dB re 1 μ Pa @10kHz
Typical Maximum Output Signal	1.8	Vrms differential into 100 Ω
Power Supply	20-34	Vdc
Maximum Current Consumption	100	mA
Dimensions	245 / 50	mm length/diameter /
Operating Depth	300	m
Cable/ Connector/ Mounting	5m/CS/None	CS – customer specified
Order Number	CTG0791	Specify cable, connector and calibration requirements #

*Please Note when ordering pre-amped hydrophones we will require additional information on your cable and processor at termination.

CTG0791 Hydrophone Sensitivity



Vertical Beam Pattern 110 kHz



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