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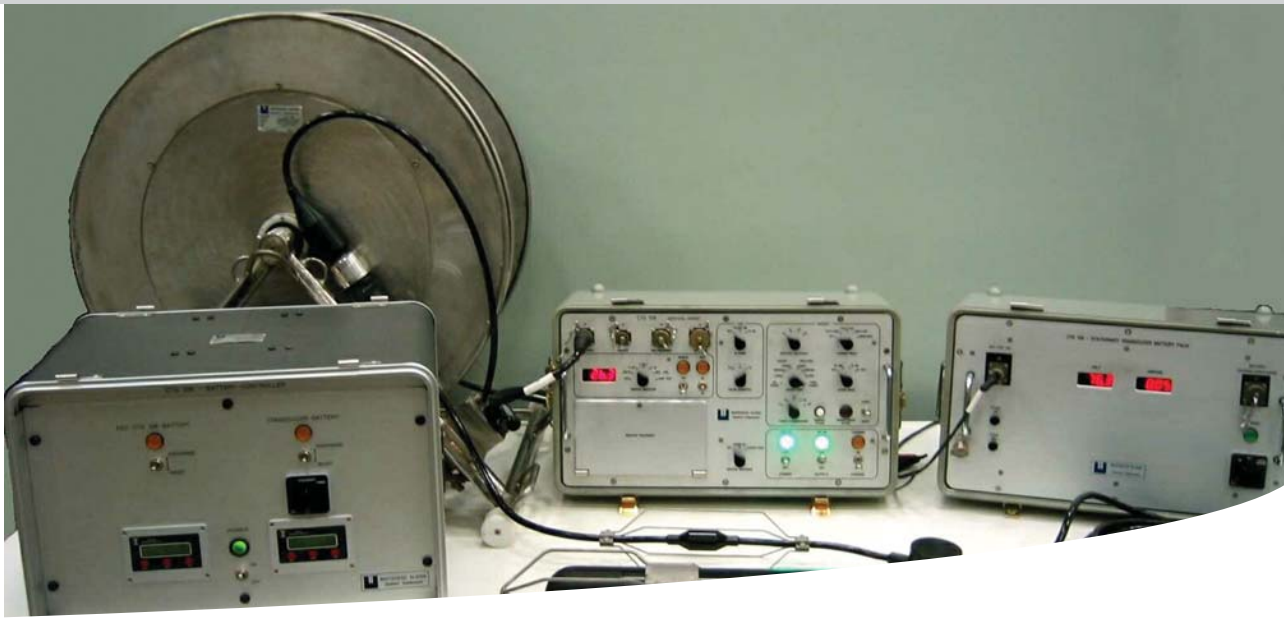

CTS 106

Acoustic Target for Torpedo

DESCRIPTION

The CTS106 is a stationary artificial target suitable for any type of acoustic torpedo and designed to provide a high-fidelity emulation of the real echo of any type of submarine.

Applications include ASW training, operational evaluation, sea acceptance trials and war stock surveillance of torpedoes.

The target consists of:

- a 3" cylindrical underwater body that contains the projector, power amplifier, and pressure sensor
- a receiving section including hydro-phone and preamplifier
- a manual winch with 200 meters underwater cable
- a control console housing the electronic racks including a sophisticated DSP unit, HMI and graphic recorder.
- a battery pack to power the stationary underwater unit
- a micro-controlled charge/discharge battery manager.

This target is able to reply to any torpedo time/frequency codified pulse and emulates : target strength; target length; target highlights; target doppler with coherent range rate and target radiated noise.

The CTS106 operates on a frequency between 12 and 60 kHz; the target strength ranges from -5 to +15 dB. It uses a time/frequency code which can be received by a 3-D tracking range such as the WASS Portable tracking Range (PTR).

The CTS 106 functionality is verified with two test equipment:

- the ACB 102 A (Automatic Control Bench) used at the workshop to perform periodic controls;

- the CEB 102 A (Target Checker) used at sea before the trial.

SPECIFICATIONS

Operational Depth: up to 200 m
Max. Transmitting Noise Level: 130 dB//µPa/VHz_1m @ 15 kHz
Max. Transmitting Acoustic Pressure: 186 dB//µPa_1m
Directivity: omni-directional

STATUS

In service with several Navies, proven with most advanced torpedoes.

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