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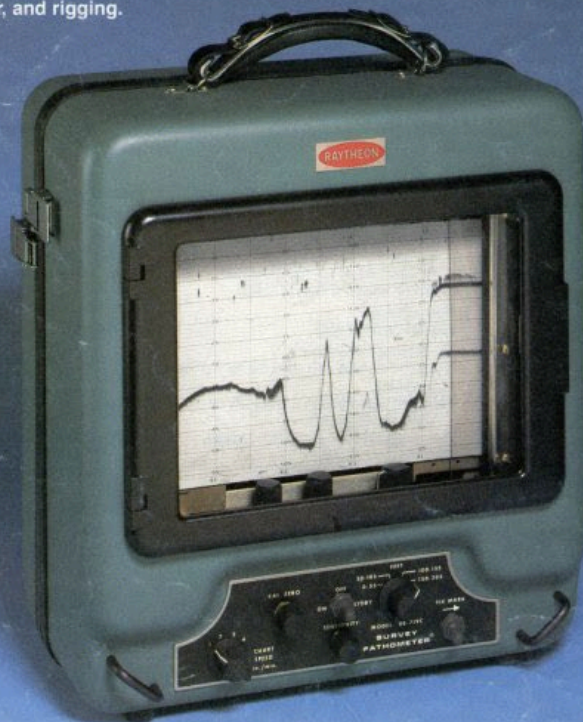
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DE-719C Recording Fathometer® Depth Sounder



A portable, yet remarkably accurate recording depth sounder for bottom surveys, oceanography, and locating submerged objects. Completely self-contained with stowage for transducer, and rigging.

The DE-719C recording Fathometer® depth sounder is a portable, survey instrument that provides an accurate, detailed and permanent record of underwater topography. It is easy to set up and easy to use. Its rugged construction and low power consumption make it ideal on smaller boats. To operate, simply mount the transducer on the sectional tube supplied, secure the tube to the side of the boat, and connect the battery cable. The unit is ready to operate. When not in use, the transducer mount and rigging are stored in the recorder case.



RAYTHEON



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High-resolution chart recordings provide extremely accurate bathymetric charts.

OUTSTANDING FEATURES

The DE-719C offers solid state circuitry throughout, with magnetic keying and electronically-controlled stylus speed. An extremely narrow transducer beamwidth, a high sounding rate, fast stylus speed and fast chart paper speed give you exceptionally high resolution recordings.

Additional flexibility is provided by front panel tide and draft adjustment, speed of sound control, and four paper speeds. Calibration markers indicating phase in use, tide/draft, and sound speed compensation, are permanently recorded on the chart for future reference. You can select either foot or metric scales, depending on the chart paper used.

FEATURES

- Portable, compact, lightweight.
- Four selectable chart speeds.
- Hinged chart window for manual chart notations.
- Operation with up to 1500 feet of transducer cable.
- Standby switch.
- Plug-in printed circuit boards.
- Phase marker.
- Remote fix-mark receptacle.
- Adjustable chart paper speed.
- All solid state.
- Available for 12 VDC, 115/230 VAC operation, 50-60 Hz.
- Belt driven stylus.
- Stylus designed for long life, quick, easy replacement.

HINGED WINDOW—Opens for easy access to chart paper and controls for speed of sound, tide and draft and range.

CARRYING HANDLE—Provides easy portability.

CASE—Rugged aluminium, splash-proof.

CANVAS ZIPPER CASE—Protects unit during transport and stowage.

SPEED OF SOUND—Compensates for salinity and temperature of water.

OFF/STDBY/ON—Turns unit on and off or keeps unit warmed up.

CAL. ZERO—Adjusts first marker line to zero on chart.

CHART SPEED—Selects 1, 2, 3 or 4 inches per minute.

SENSITIVITY—Adjusts receiver gain.

FIX MARK—Places reference mark on chart.

HINGED REAR COMPARTMENT—Stores transducer, brackets and cable.

TIDE/DRAFT—Compensates for tide and draft variations.

RANGE X1, X2—Changes stylus speed to multiply phase scale by two.

FEET—Selects desired depth ranges.



Weight: 40 lbs. (18 kg.)

Specifications

Depth Range: 0-55', 50-105', 100-155', 150-205', 0-16.5, 15-31.5, 30-41.5, 45-61.5 meters (All basic depth ranges can be multiplied 2 times by use of the range doubling switch.)
Sounding Rate: 534 Sounding per min.
Voltage Input: 12 volts DC (operates between 11.5 and 14.8 VDC. Optional converter available for operation 115/230 VAC, 50-60 Hz.)
Current Drain: 2.5 Amperes.
Accuracy: $\pm 0.5\% \pm 1"$ of indicated depth.
Operating Frequency: 208 kHz.
Transducer: Barium Titanate—Model 200T5HAD. Optional Model 7245A.
Transducer Beamwidth: 8° at the half-power points.
Chart Paper Speed: 1, 2, 3 or 4 inches per minute.
Chart Paper: 7 inches (17.8 cm) wide by 60 feet (18.3 meters).
Recorder Dimensions: Height (including handle): 18 inches (46 cm).

Width: 15 3/8 inches (39 cm), **Depth:** 9 1/8 inches (23 cm). **Weight of recorder and rigging, with transducer:** 47 pounds (21.3 kg). **Recorder alone:** 38 pounds (17.2 kg).

Transducer

Model 200T5HAD

Frequency: 208 kHz.
Transmit sensitivity: 170 dB re 1 $\mu\text{Pa/V}$ (typical).
Receive sensitivity: -190 dB re 1 V/ μPa (typical).
Beam width at -3 dB: 8° typical.
Transformer: Built-in.
Pulse power: 300 watts
Weight: 1.4 pounds
Impedance: 50 ohms $\pm 15\%$ at operating frequency.
Cable: 2 conductor shielded, #18 AWG.
Connector: Cannon XLR-3-12C.

Model 7245A.

Narrow beam, silicon bronze housing, urethane window.

Frequency: 204 to 210 kHz.
Transmit sensitivity: 171 dB re 1 $\mu\text{Pa/V}$ (typical).
Receive sensitivity: -180 dB re 1 V/ μPa (typical).
Beam width at -3 dB: 2.75° typical.
Transformer: Built-in.
Pulse power: 300 watts.
Weight: 7 1/2 pounds.
Cable: 2-conductor shielded, #18 AWG Neoprene jacket, thirty feet long.
Connector: Cannon XLR-3-12C.

ENVIRONMENTAL TESTING

The Model DE-719C has passed tough Raytheon environmental tests for shock, vibration, temperature extremes and resistance to corrosion, fungus and water penetration.

UNMATCHED 2-YEAR WARRANTY

The DE-719C has a two-year limited parts warranty with one year free labor by any of our U.S. dealers and worldwide service network in major ports everywhere.

For more information see your local dealer or contact:

RAYTHEON RAYTHEON
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