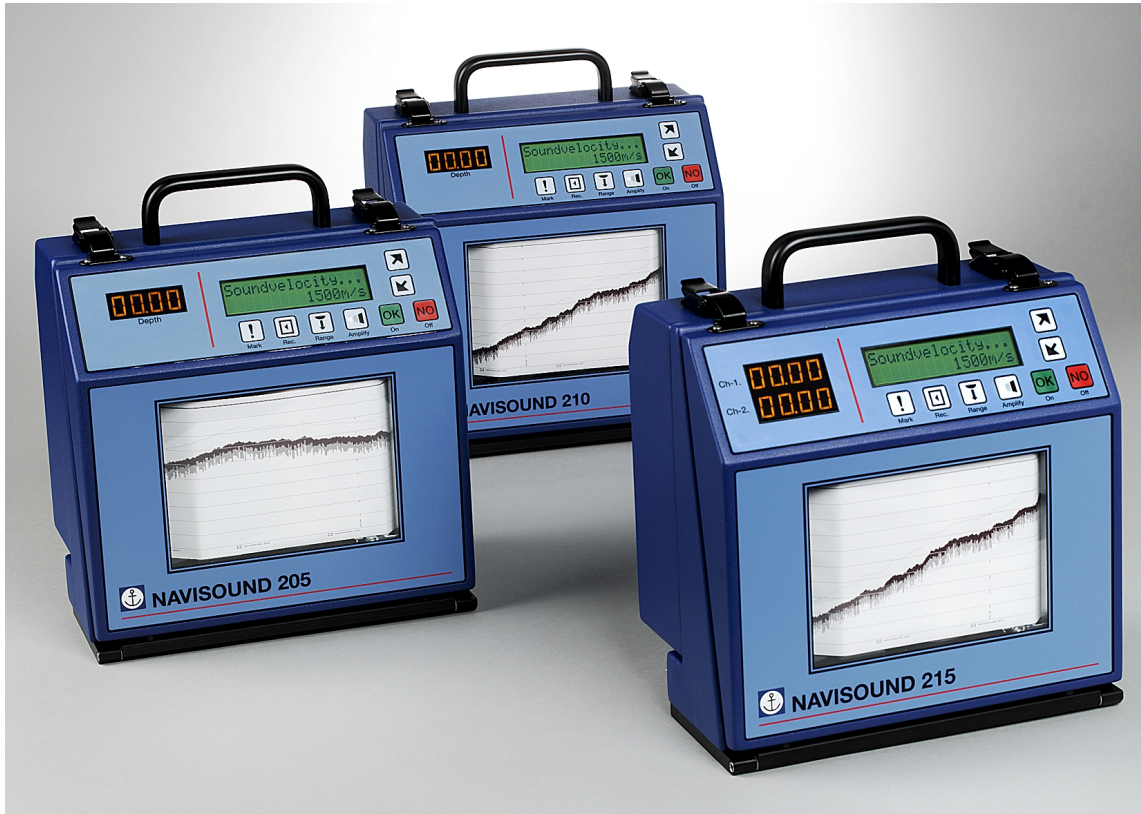


NAVISOUND 200

HYDROGRAPHIC SURVEY ECHO SOUNDERS



Product line of hydrographic echo sounders with built in paper recorder mechanisms, providing a selection of performance and prices, designed for a wide range of hydrographic survey applications.

NAVISOUND 215

An enhanced echo sounder using one receiver channel to operate two transducers in a true real time multiplexed operation giving two frequencies at low cost.

NAVISOUND 210

Basic one channel survey echo sounder for high performance hydrographic survey operations.

NAVISOUND 205

One channel survey echo sounder with reduced sounding performance.

Common features:

- **Waterproof** design for open sea use.
- **High performance** and easy operation, **portable**, light weight, and very reliable.
- **Single / multiplexed** channel operations.
- Selectable **33/210 kHz sounding frequency** (others upon request).
- **DC power supply** (10-28 VDC).
- **RS-232C** interfacing.

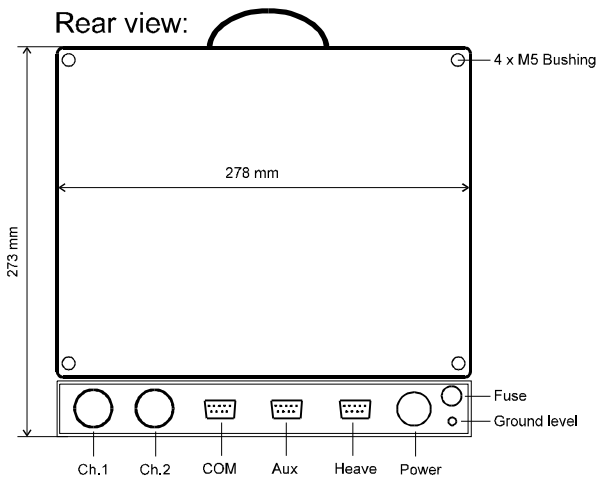
The **NAVISOUND 200** family of professional hydrographic echo sounders permits easy operation and reliable depth measurements. All sounders are handy and easy to operate, however also featuring advanced facilities normally only found in larger echo sounders.

The compact size and low weight means easy handling, and makes the **NAVISOUND 200** family ideal for any portable survey system.

TECHNICAL DETAILS

NAVISOUND	205	210	215
Heave input:	-	+	+
Data output resolution:	dm	cm	cm
NMEA output:	+	+	+
DESOxx output protocol:	-	+	+
Max. range:	100 m	400 m	400 m
Channels / Transducers:	1 / 1	1 / 1	1 / 2
Max. sounding rate (PRF):	5 Hz	15 Hz	15 / 7 Hz

NAVISOUND 2xx	Specifications
Operating frequencies:	28 - 35 kHz or 190 - 225 kHz (Others upon request)
Useable transducers:	Including all ATLAS, RESON and SONAR Research types in the operating frequency ranges
Impedance:	100 Ohm (others on request)
Transmission power (max.):	300 W
Transmission power control:	Manual or automatic
Transmission pulse length:	Manual, 5 steps
Echo approval length:	100 μ s for 210 kHz / 400 μ s for 33 kHz
Depth range:	0.5 -100/400 m frequency dependent
Resolution:	1 cm
Accuracy:	1 cm at 210 kHz (1 sigma) / 7 cm at 33 kHz (1 sigma) assuming correct sound velocity, transducer depth etc.
TVC detection level:	20 Log (depth)
Sound velocity calibration:	1350 - 1600 m/sec in 1m/sec step
Transducer draft comp.:	0 - 99.99 m
Initial delay calibration:	On digital data
Additional feature:	Barcheck possibility
Graphic recording:	11 cm integrated thermal paper recorder
Graphic resolution:	700 pixels in grey levels
Graphic transfer speed:	20 lines/sec
Serial interfaces:	1: Communication, 2: Heave input, 3: Auxiliary loop through (e.g. positioning system input)
Dimensions:	Height: 273 mm, Width: 278 mm, Depth: 115 mm, Weight: 5.5 kg
Supply voltage:	10 - 28 VDC
EMC radio noise:	According to CE



Due to improvements information shown above may be subject to change without notice
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NAVITRONIC SYSTEMS AS

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