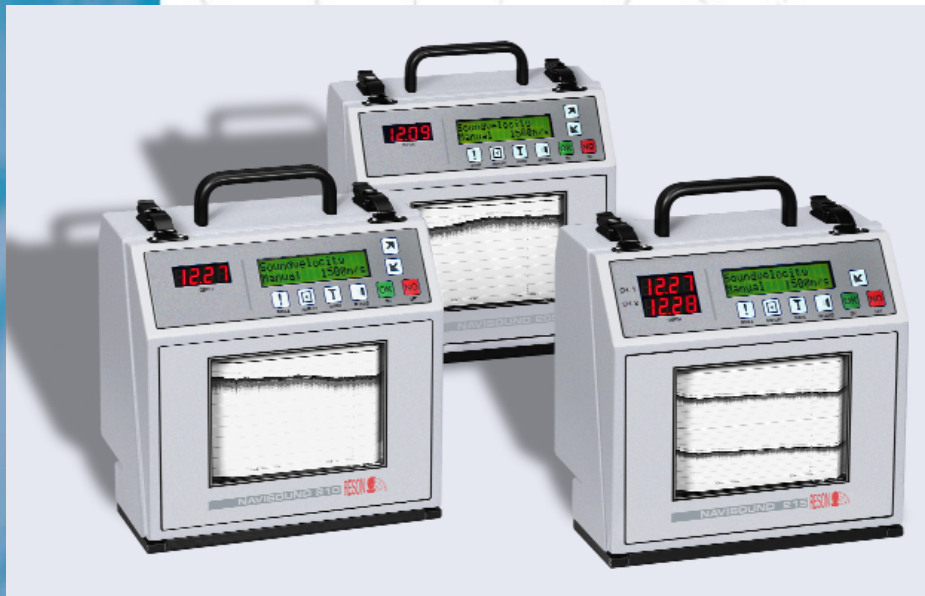


NaviSound 200 Series PRODUCT SPECIFICATION

PORTABLE HYDROGRAPHIC SINGLE-BEAM ECHOSOUNDERS



- *Portable, highly compact, lightweight unit*
- *Easily configured frequency selection*
- *Multiple bottom digitizing with single frequency for sediment and vegetation surveys*
- *Supports single or alternating channel operations*
- *High-performance, easy-to-operate, and very reliable*

RESON's NaviSound 200 Series are highly portable, single-beam echosounders that offer a range of high-performance features. With a selection of models, the NaviSound 200 Series supports a wide range of hydrographic survey applications.

NaviSound 200 echosounders provide reliable depth measurements in a convenient, easy-to-operate unit. Advanced features include multiple bottom digitizing with a single frequency for sediment and vegetation surveys. Besides its compact size and low weight, the NaviSound 200 enclosure provides the highest possible water resistance.

An affordable side-looking sonar (SLS) option that records dual-sided imagery is also available for selected NaviSound 200 models.

Individual NaviSound 200 models are as follows:

- **NaviSound 205:** One-channel single-beam echosounder for light surveying
- **NaviSound 210:** Basic, one-channel, single-beam echosounder for hydrographic survey operations
- **NaviSound 215:** Enhanced single-beam echosounder that uses one receiver channel to operate two transducers in true real-time, alternating frequency operations



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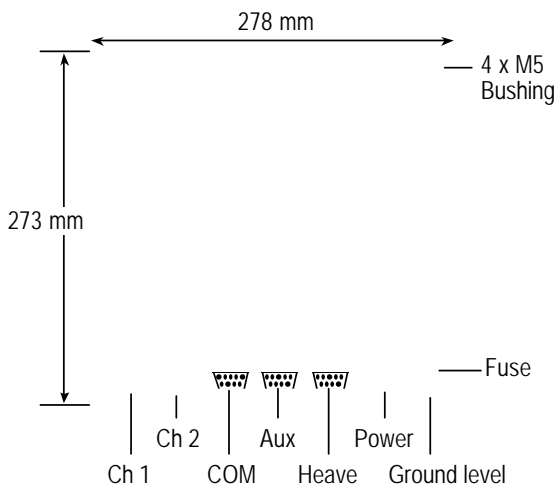
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NaviSound 200 Series System Specifications

TECHNICAL DETAILS

Frequencies:	User-selectable frequencies from 15-600 kHz. Standard 28-35 and 190-225 kHz	Transducer draft comp:	0 - 99.99m
Impedance:	100 Ohm (others on request)	Graphics:	
Max power:	300 W	Recording:	11 cm wide thermal paper recorder
Power control:	Manual or automatic	Resolution:	800 pixels (gray shades)
Pulse length:	Manual, 5 steps	Transfer speed:	20 lines/sec
Units:	Meters & feet	Serial interfaces:	1: Communication 2: Heave input 3: Auxiliary input (DGPS) 4: Repeater output
Resolution:	1 cm (210 & 215) 1 dm (205)	Dimensions:	273 x 278 x 115 millimeters (11 x 11 x 4.5 inches)
Accuracy:	1 cm at 210 kHz (1 sigma), 7 cm at 33 kHz (1 sigma) (assuming correct sound velocity, transducer draft)	Weight:	5.5 kg (12 lbs)
TVC detection level:	20 Log (depth)	Temperature:	0°C > +45°C (operative) -10°C > +70°C (storage)
Additional feature:	Built-in barcheck utility	Humidity:	20% > 95% Non condensing
Sound velocity calibration:	1350 - 1600 m/sec in 1 m/sec step	Supply voltage:	10 - 28 VDC (external AC converter available)
		EMC radio noise:	CE approved

REAR VIEW



MODEL COMPARISON

NaviSound	205	210	215
Output resolution:	dm	cm	cm
Depth Range:	0.5-100m	0.2-600m	0.2-600m
Channels/Transducers:	1/1	1/1	1/2
Max. sounding rate (PRF):	5 Hz	20 Hz	20/10 Hz
Heave input:	-	✓	✓
NMEA output:	✓	✓	✓
DESOxx output protocol:	-	✓	✓
Supports SLS option	-	✓	✓
AC Converter Option	✓	✓	✓

Scope of delivery: NaviSound 200 Series User's Manual, DC power cable, RS-232C communication cable for PC, spare paper, transducer connector(s), and fuses & thermal head cleaning kit



Version: B042 040129

Due to our policy of continuous product improvement, RESON reserves the right to change specifications without notice.