

Final test checklist - AD2CP/UNS



Nortek AS
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Nortek order number:

50334-1585

Name:

Echosounder 70-120kHz Glider

Instrument
serial number:

105815

Frequency:

70-120kHz

Main board:

7767

Firmware
versions:

8403_10

Label checked: ☐ OK

Comments:

Dock test: ☒ OK

Baudrate 115200: ☐ OK

Tilt check

N.A.

Pitch up

N.A.

Roll up

N.A.

Status bit

N.A.

Pitch down

N.A.

Roll down

pitch & roll within +/- 0.2

Clock



Set clock

Heading

N.A.

Up

N.A.

Down

tolerance: +/- 2

Pressure

Psenortemp



OK

tolerance: +/- 0.1% of

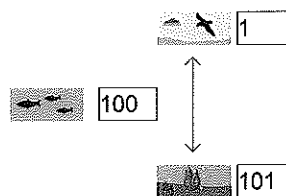
1500

m

Temperature



OK



tolerance: +/- 0.1

Beam check

	Correct order	Beam Imp	Noise floor	Amplitude in tank	Range
Beam 1	<input checked="" type="checkbox"/> OK	<input type="checkbox"/> Ω	N/A dB	N/A dB	<input checked="" type="checkbox"/> OK
Beam 2	<input type="checkbox"/> OK	<input type="checkbox"/> Ω	<input type="checkbox"/> dB	<input type="checkbox"/> dB	<input type="checkbox"/> OK
Beam 3	<input type="checkbox"/> OK	<input type="checkbox"/> Ω	<input type="checkbox"/> dB	<input type="checkbox"/> dB	<input type="checkbox"/> OK
Beam 4	<input type="checkbox"/> OK	<input type="checkbox"/> Ω	<input type="checkbox"/> dB	<input type="checkbox"/> dB	<input type="checkbox"/> OK
Beam 5	<input type="checkbox"/> OK	<input type="checkbox"/> Ω	<input type="checkbox"/> dB	<input type="checkbox"/> dB	<input type="checkbox"/> OK

Velocity direction

XYZ coordinate system

X ☐ N.A. OK
Y ☐ N.A. OK
Z ☐ N.A. OK
Z₂ ☐ N.A. OK

ENU coordinate system

E ☐ N.A. OK
N ☐ N.A. OK
U ☐ N.A. OK
U₂ ☐ N.A. OK

Head file



Headfile checked



Saved as read only

Serial communication



RS422



RS232

Trigger



TTL



RS485

Recorder erased



OK

Rec size:

256GB

Ethernet

MAC address:

N/A

Static IP address:

Set host name:

105815

DHCP enabled

N.A.

FTPOK

N.A.

Licenses



Averaging mode



Burst Five beams



Bottom track



High Resolution



Special B



Wave mode



Echo Sounder



Ice Measurement



Altimeter



INS



Vertical velocity



Dual frequency low



Dual frequency high



16GB recorder



Wave Processing



64GB recorder



128GB recorder



256GB recorder



AHRS for UNS

Calibration license erased



Production license erased



Default configuration set



Cable/Harness

Cable

N.A.

Communication

N.A.

Battery

Harness

☒

Communication

N.A.

Battery

Electrical isolation test

N.A.

50V OK

External sensors



Power down



OK

Date

Day Month Year
24 04 2025

Kim Dumerudhagen
Signature



Certificate of Calibrations and Tests

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Instrument Information

Customer Reference No.	50334-1585
RMA No.	8575
Instrument Type	Echosounder 70-120kHz Glider
Instrument Frequency	100 kHz
Instrument S/N	105815
Head S/N	D-5815
Interface Board S/N	105815
Digital Board Mfr. S/N	D D0 13901
Analog Board Mfr. S/N	HZA B0 03702
Interface Board Mfr. S/N	EI C0 7767
Digital Board Rev.	
Analog Board Rev.	
Interface Board Rev.	

Calibrations and tests performed

Pressure	Passed
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All the tested values are within Nortek AS specifications

April 24, 2025

Date

Kim Dumerudhagen

Reviewed and approved (sign.)



Pressure Report

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Details

Instrument Type	Echosounder 70-120kHz Glider
Instrument S/N	105815
Pressure Range	1500 dBar
Date	April 22, 2025
Operator	Nicolas Etchart
Location	Nortek Factory Norway
Result	Passed

Description

Verification is performed in an automated pressure chamber. Fixed-point measurements are collected to verify the sensor.

Criteria of acceptance is $\pm 0.1\%$ of full scale.

Reference: Paroscientific, Inc. - Digiquartz 9000-10K-101. Accuracy 0.01% of 6895dBar.

Verification Results

Reference (dBar)	Pressure Diff. (dBar)	Pressure Diff. (% of FS)
166.62	-1.70	-0.11
329.15	-1.26	-0.08
483.43	-0.84	-0.06
637.54	-0.39	-0.03
759.07	-0.06	0.00
939.60	0.51	0.03
1078.34	0.53	0.04
1221.91	0.91	0.06
1371.65	1.45	0.10
1522.40	1.70	0.11