

# Final test checklist - AD2CP/UNS



Nortek AS  
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nortekgroup.com

Nortek order number:

R50849-10

Name:

Echosounder 70-120kHz Glider

Instrument  
serial number:

105712

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

Psensortemp

☒ OK

tolerance: +/- 0.1% of

1500 m

## Temperature

☒ OK

tolerance: +/- 0.1

## Beam check

Correct order

Beam 1 ☒ OK

Beam 2 ☐ OK

Beam 3 ☐ OK

Beam 4 ☐ OK

Beam 5 ☐ OK

Beam Imp

☐ Ω

☐ Ω

☐ Ω

☐ Ω

☐ Ω

Noise floor

N/A dB

☐ dB

☐ dB

☐ dB

☐ dB

Amplitude in tank

N/A dB

☐ dB

☐ dB

☐ dB

☐ dB

Range

☒ OK

☐ OK

☐ OK

☐ OK

☐ OK

## Velocity direction

XYZ coordinate system

X N.A. OK

Y N.A. OK

Z N.A. OK

Z<sub>2</sub> N.A. OK

ENU coordinate system

E N.A. OK

N N.A. OK

U N.A. OK

U<sub>2</sub> 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:

105712

DHCP enabled

N.A.

FTP OK

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.	R50849-10
RMA No.	8574
Instrument Type	Echosounder 70-120kHz Glider
Instrument Frequency	100 kHz
Instrument S/N	105712
Head S/N	D-5712
Interface Board S/N	105712
Digital Board Mfr. S/N	D D0 13887
Analog Board Mfr. S/N	HzA B0 03709
Interface Board Mfr. S/N	EI C0 7774
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	105712
Pressure Range	1500 dBar
Date	April 8, 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)
155.45	-2.80	-0.19
345.96	-1.75	-0.12
472.95	-1.37	-0.09
648.93	-1.27	-0.08
781.97	-1.10	-0.07
909.18	-0.65	-0.04
1076.15	-0.08	-0.01
1235.36	0.67	0.04
1369.98	1.57	0.10
1496.68	2.80	0.19