

EU-Type Examination Certificate

0470-RED-253115

In compliance with Directive (EU) No 2014/53 of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment (RED), this certificate applies to the product(s)

Fishing buoy locator system

Model: TronTracker consisting of RA10 Receiver, TA10 Tracker and BC10 Dual Charger

Placed on the market under the name or trademark of

**Jotron AS
Ringdalskogen 8
3270 Larvik
Norway**

This certificate attests that all provisions concerning the assessment and verification of performance described in the standard(s)

Art 3.1a:	EN IEC 62368-1:2020 + A11:2020	
	EN 50385:2017	IEC 62232:2017
Art 3.1b:	EN 301 489-1 V2.2.3	EN 301 489-3 V2.3.2
	EN 301 489-17 V3.3.1	EN 301 489-19 V2.2.1
	IEC EN 60945:2002	
Art 3.2:	ETSI EN 300 328 V2.2.2	ETSI EN 303 413 V1.2.1
	Recommendation ITU-R M.2135-1:2023	

as per Annex III (Module B) for the performance set out in this certificate, are applied.

Certificate issued August 18, 2025
Certificate was first issued August 18, 2025

Certificate revision: 1.0

For NEMKO (Notified Body 0470)
Authorized signatory: Espen Eriksen



This certificate has been granted by Nemko Group AS, Philip Pedersens vei 11, NO-1366 Lysaker, Norway

This certificate remains valid, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Nemko. Should the specified regulations or standards be amended, the products are to be re-approved prior to being placed on the market. Nemko is designated by the Norwegian Notified Authority as a Notified Body under the terms of the Norwegian regulations. This certificate is issued within the scope of the "Provisions for certification - Electrical products - Radio Equipment Directive 2014/53/EU" (Nemko C355), which is available on request.

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ANNEX 1 – PRODUCT SPECIFICATIONS

PRODUCT DESCRIPTION

Equipment type:	Fishing buoy locator system
Model/type:	TronTracker consisting of RA10 Receiver, TA10 Tracker and BC10 Dual Charger
HW / SW / FW versions	Hardware; TA10 Tracker: 2330, RA10 Receiver: 2327, BC10 Dual Charger: 2428 Software: TA10 Tracker: 0.4, RA10 Receiver: 0.4, BC10 Dual Charger: N/A
Brand/trade name:	Jotron
Supply voltage:	TA10: 3.7 Vdc (battery), RA10: 12-24 Vdc, BC10: 12-24 Vdc
Rated power:	-

TECHNICAL CHARACTERISTICS

Transmitter type:	VHF, BLE
Intended purpose:	Location of fishing bouy
Frequency range:	VHF: AMRD-B device on 160.900 MHz BLE: 2.4 GHz GNSS: 1575.42 MHz
Transmit power:	VHF: +20 dBm / 100 mW EIRP BLE: 0 dBm / 1 mW
Modulation type:	VHF: Phase Modulation BLE: GFSK
Maximum duty cycle:	VHF: 0.178 %
Number of channels:	-
Channel separation:	-
Antenna type:	Integral antenna
Maximum antenna gain:	VHF: -8.15 dBi BLE: 0 dBi

MANUFACTURER

Name:	Jotron AS
Address:	Ringdalskogen 8 3270 Larvik Norway

ADDITIONAL INFORMATION

None.

ANNEX 2 - SCHEDULE OF APPROVAL

SCOPE OF EXAMINATION

<input checked="" type="checkbox"/> Protection of Health and Safety, according to Article 3(1)(a).	COMPLIES
<input checked="" type="checkbox"/> Electromagnetic Compatibility (EMC), according to Article 3(1)(b).	COMPLIES
<input checked="" type="checkbox"/> Radio Spectrum Use, according to Article 3(2).	COMPLIES
<input checked="" type="checkbox"/> Special Radio Features, according to Article 3(3)(a)-(f).	N/A

APPLICATIONS/LIMITATIONS

No limitations

MARKING OF PRODUCT

The Manufacturer and Type Designation shall be applied to the product in a visible location.
The equipment shall carry the CE marking of the European Union.

TYPE EXAMINATION DOCUMENTATION

Article	Standard	Test report number	Issued by
3.1a	EN IEC 62368-1	REP075854, REP075855, REP075859	Nemko Scandinavia AS
	EN 50385	REP100132, REP100133	Nemko Scandinavia AS
	IEC 62232	REP100132, REP100133	Nemko Scandinavia AS
3.1b	EN 301 489-series	REP075858, REP075860, REP075853	Nemko Scandinavia AS
	IEC EN 60945	REP075858, REP075860, REP075853	Nemko Scandinavia AS
3.2	EN 300 328	REP099768, REP099770	Nemko Scandinavia AS
	EN 303 413	REP099771	Nemko Scandinavia AS
	ITU-R M.2135-1	REP099773	Nemko Scandinavia AS

Additional documentation

- RED technical file by Jotron dated: 2025-07-08

ADDITIONAL INFORMATION

None.

Certificate Revision

Revision #	Date	Description
1.0	2025-08-18	First issued

<< End of certificate >>