



Certificate No: 0470-RED-191301 File No: 356984

Notified Body 0470 – Radio Equipment Directive 2014/53/EU

# **EU-Type Examination Certificate**

# 0470-RED-191301

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)

# Maritime VHF radio for distress communication between ships and aircraft Model: Tron TR30 AIR

Placed on the market under the name or trademark of

Jotron AS Østbyveien 1 3280 Tjodalyng Norway

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

Art 3.1a: EN 62368-1:2014 + A11:2017

EN 62479:2010

Art 3.1b: ETSI EN 301 489-1 V2.1.1

ETSI EN 301 489-22 V1.3.1

Art 3.2: ETSI EN 301 688 V1.2.1

Other IEC/EN 60945 (2002-08)

**IMO MSC.80(70) ANNEX 1** 

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

Certificate issued June 18, 2019 Certificate was first issued April 02, 2019 Certificate is valid until April 02, 2024

Certificate revision: 2.1

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

This certificate has been granted by Nemko AS, Gaustadalleen 30, NO-0373 Oslo, Norway

Exerceleser

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: Maritime two-way VHF/AM radio for communication between a ship in distress

and rescuing aircraft

Model/type: Tron TR30 AIR

HW / SW / FW versions HW: R1844, SW: 3.2.0 AIR

Brand/trade name: Jotron

Supply voltage: 6 VDC battery operated. 2 x 3 V Lithium cells

Rated power: Max. 5 W

### **TECHNICAL CHARACTERISTICS**

Transmitter type: Two-way VHF radio

Intended purpose: Communication between a ship in distress and rescuing aircraft

Frequency range: Two channels: 121.5 MHz and 123.1 MHz

Transmit power: 1 W

Modulation type: AM

Maximum duty cycle: 100%

Number of channels: 2

Channel separation: -

Antenna type: External antenna, attached to the radio

Maximum antenna gain: -5.1 dBi

# **MANUFACTURER**

Name: Jotron AS

Address: Østbyveien 1

3280 Tjodalyng

**Norway** 

## **ADDITIONAL INFORMATION**

None.



# **ANNEX 2 - SCHEDULE OF APPROVAL**

# **SCOPE OF EXAMINATION**

$\boxtimes$	Protection of Health and Safety, according to Article 3(1)(a).	COMPLIES
$\boxtimes$	Electromagnetic Compatilbility (EMC), according to Article 3(1)(b).	COMPLIES
$\boxtimes$	Radio Spectrum Use, according to Article 3(2).	COMPLIES
$\boxtimes$	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 62368-1	356984	Nemko AS
	EN 62479	3-356984	Nemko AS
3.1b	ETSI EN 301 489-1	E19058.00	Nemko AS
	ETSI EN 301 489-22	E19058.00	Nemko AS
3.2	ETSI EN 301 688	356984-01 and E19028.00	Nemko AS
Other	IEC 60945	E19058.00	Nemko AS
	IMO MSC.80(70) ANNEX 1	Statement Tron TR30 Air	Jotron

## **ADDITIONAL INFORMATION**

RED technical file by Jotron dated: 2019-04-01

### **Certificate Revision**

Revision #	Date	Description
1.0	2019-04-02	First issued
2.0	2019-06-14	Added reference to non RED standard IEC/EN 60945 and IMO MSC.80(70) ANNEX 1 Sec. 1
2.1	2019-06-18	Corrected typo

<< End of certificate >>