

EC TYPE EXAMINATION CERTIFICATE

MED-B-20321

In compliance with Module B of Council Directive 2014/90/EU of the European Parliament and included the Commission Implementation Regulation (EU) 2020/1170 of 16 July 2020, this certificate is issued to the manufacturer:

Jotron AS
Ringdalskogen 8
NO-3270 Larvik, Norway

And applies to the product

Aeronautical two-way VHF radio telephone apparatus
Tron TR30 AIR

This certificate attest that provisions according to type examination requirements given in

SOLAS 74 as amended, Regulation IV/7, IV/14, X/3
IMO Res. MSC.36(63)-(1994 HSC code) 14
IMO Res. MSC.97(73)-(2000 HSC code) 14
IMO Res.A.694(17)
IMO Res.MSC.80(70)
IMO COMSAR Circ.32
ICAO Convention, Annex 10, Radio Regulations

EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008)
ETSI EN 301 688 V1.2.1:2016-03

This certificate loses its validity if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to and agreed upon with Nemko. Software changes and updates: - See Product description in the Annex. Should the specified regulations or standards be amended during the validity of this certificate, the products are to be re-approved prior to them being placed on board vessels to which the amended regulations or standards apply.

The attached Schedule of Approval forms part of this certificate. The certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Oslo, 2020-08-17

Date of expiry: 2025-08-16

Notified Body Id. no. 0470
Nemko AS
Philip Pedersens vei 11,
1366 Lysaker, Norway



Roy Uggerud
Nemko AS

Annex I to EC Type-Examination Certificate, No. MED-B-20321

SCHEDULE OF APPROVAL

Product description

Aeronautical two-way VHF radio telephone apparatus
Operating frequency range: Transmitter: 121.5 – 123.1 MHz, Receiver 121.5 – 123.1 MHz
Maximum output power: 0.35 Watt rated
The products covered by this certificate are marketed under the brand Tron
The EC Type-Examination Certificate covers the products listed below.

Software version: 3.2 AIR
Hardware version: R1844

Minor software changes are given, xx in version number as shown above, with a notification to Nemko.
Major software changes, version number e.g. 3.xx, must be recorded and documentation must be provided to Nemko for review and acceptance before implementation.

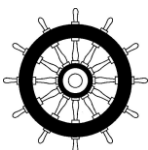
The Tron TR30 AIR Assembly consists of the following components:

Item no.	Type	Part no.	Manufacturer	Option
1	Tron TR30 AIR Handheld Emergency AM aeronautical radio	101700	Jotron AS	
2	TR30 AIR Emergency Battery (L91 Energizer Lithium)	101035	Jotron AS	
3	TR30 AIR Battery Test (L91 Energizer Lithium)	101710	Jotron AS	
4	TR30 AIR Radio Holder RH-30	101720	Jotron AS	
5	TR30 AIR Antenna	102917	Jotron AS	

Type approval documentation

Document	Document no.	Rev.	doc. no
Jotron: User Manual, User-Manual-Tron TR30 AIR	Manual-User-Manual-Tron TR30 AIR PA2_4_front	A	001
Jotron documentation: BOM, Product description, assembly drawings, photos, marketing material	---	---	002
Jotron documentation: 3540 Block diagram	---	AF	003
Jotron documentation: 3540 Circuit diagram Battery PCB	87671	AF	004
Jotron documentation: 3540 Circuit diagram Radio Unit	101733	AF	005
Jotron documentation: Antenna	A1899	3	006
Jotron documentation: Regulatory Label	101866	C	007
Jotron statement: MSC80(70) waiver for TR30 Air	Statement Tron TR30 Air	14.06.2019	008
Jotron statement: Solar radiation and Oil resistance TR30 Air		22.03.2019	009
Nemko statement: SoC Salt Mist, TR30 Air Front and Back Cover Sample	3623374	0	010
Nemko report: 356984 TR30AIR Nemko TRF EN 301 688	356984-01	01	011
Nemko report: 356984 TRF ENV	E19028.00	00	012
Nemko report: 356984-2 TR30AIR Nemko EN60945_EN301489	E19058.00	00	013
Jotron statement: Antenna termination test	Tron TR30 Air Statement	00	014

Limitations/restrictions



"The Mark of Conformity" (i.e. the Wheel mark) may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module D (Production Quality Assurance), E (Product Quality Assurance), or F (Product Verification), of Annex B of the Directive (MED) is fully complied with and controlled by a written inspection agreement with a notified body."

----- End of certificate -----