



EC TYPE EXAMINATION CERTIFICATE

MED-B-15201

In compliance with Module B of Council Directive 96/98/EC of the European Parliament and as amended by the Council Directive 2013/52/EU of 14 November 2013, this certificate is issued to the manufacturer:

Jotron AS
Østbyveien 1, P.O.Box 54
NO-3280 Tjodalyng, Norway

And applies to the product

Portable survival craft two-way VHF radiotelephone apparatus
TRON TR20 GMDSS

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

SOLAS 74/2009 Reg. III/6

IMO Res.A.694(17)

IMO Res.A.809(19)

IMO Res.MSC.36(63)-(1994 HSC Code) 8

IMO Res.MSC.36(63)-(1994 HSC Code) 14

IMO Res.MSC.97(73)-(2000 HSC Code) 8

IMO Res.MSC.97(73)-(2000 HSC Code) 14

IMO Res.MSC.149(77)

ITU-R M.489-2 (10/95)

EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008)

ETSI EN 300 225 V1.4.1 (2004-12)

ETSI EN 301 843-2 V1.2.1 (2004-06)

This certificate replaces certificate no MED-B-13274, which is revoked.

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.

This product also fulfils the requirements of directive 2014/93/EU of 25 July 2014, which will enter into force 14 August 2015.

Oslo, 2015-05-11

Date of expiry: 2020-05-11

Notified Body Id. no. 0470

Nemko AS

P.O. Box 73 Blindern

NO-0314 Oslo, Norway

Roy Uggerud
Nemko AS

Annex I to EC Type-Examination Certificate, No. MED-B-15201

SCHEDULE OF APPROVAL

Product description

Main unit: Jotron TRON TR20 GMDSS VHF Radio
Primary Emergency Lithium Battery TRON TR20, type 80060 (Jotron)
Battery charger: Jotron RCH-20 (optional)
Secondary rechargeable NiMh battery, type 80059 (Jotron), 7,2V/1500 mAh (optional)

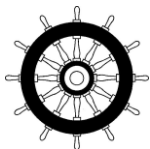
Any limitations on the acceptance or use of the product or specific requirements

Used for on-scene communication with dedicated sealed battery type 80060 (Jotron), and general communication with approved rechargeable batteries as listed above.
Battery charger RCH-20 to be supplied according to the manufacturer's installation manual.
With regards to the Directive 2014/93/EU, the manufacturer cannot issue a Declaration of Conformity with reference to this directive before 14 August 2015, subject to any national delays in the implementation of the Directive.

The approval documentation

Jotron AS – User Manual TRON 20 GMDSS handheld VHF radio, 80078_UM_TR290_G, rev 18 April 2007
Jotron AS – TRON TR 20 GMDSS Technical Manual, 82701_TM_TR20_A, rev. 12 April 2007
Jotron AS – TRON TR20 with Palm display, IEC 60945 ed.4, issue 8.6.1 and 8.9.2.2, of 26 October 2006
Jotron AS – Software functionality TRON TR20 GMDSS upgrade, rev. A, of 14 June 2006
Nemko Comlab - Test report no. 95134/4, of 30 October 2007, part of EN/IEC 60945:Ed 4 (2002) and EN 301 843-2 V 1.2.1 (2004)
Jotron AS – Change Note, CN05238, of 4 May 2006
Nemko Comlab – Selected parts of ETSI EN 300 225 V1.4.1, project no. 70999/03, of 28 July 2006
DNV technical report: Jotron Electronics AS type testing of handheld VHF radio type TRON TR20 GMDSS, report no. 2001-3269 rev no. 01
DNV technical report: Jotron Electronics AS, Type testing of handheld VHF radio type TRON TR20 GMDSS, report no. 2001-3269 rev no. 02
Instituto de Pesquisas Eldorado – Ensaios de Conformidade EM Transceptor Portatil (Voz 117-470 MHz), Radio VHF Jotron TRON TR20 GMDSS, IPE-RE 46-080-1A/2003, of 12 August 2003
DNV technical report: Jotron Electronics AS, Type testing of battery charger model model RCH-20, report no. 2002-3063, rev. no. 1
DNV technical report: Jotron Electronics AS EMC testing of battery charger model RCH-20, report no. 2003-3235, rev. no. 1

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 -----