

## EC TYPE EXAMINATION CERTIFICATE

MED-B-15192

In compliance with Module B of Council Directive 2014/90/EU of the European Parliament and included the Implementing Regulation (EU) 2019/1397 of 6 August 2019, this certificate is issued to the manufacturer:

**Jotron AS**  
**Ringdalskogen 8**  
**NO-3270 Larvik, Norway**

And applies to the product

**406 MHz EPIRB (COSPAS-SARSAT)**  
**TRON 60S/TRON 60GPS**

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

SOLAS 74/2009 Reg. IV/7  
SOLAS 74/2009 Reg. IV/14  
SOLAS 74/2009 Reg. X/3  
IMO Res.A.662(16)  
IMO Res.A.694(17)  
IMO Res.A.696(17)  
IMO Res.A.810(19)  
IMO Res.MSC.36(63)-(1994 HSC Code) 14  
IMO Res.MSC.97(73)-(2000 HSC Code) 14  
IMO MSC/Circ.862  
IMO COMSAR Circ.32  
ITU-R M.633-4 (12/10)  
ITU-R M.690-3 (03/15)

IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008)  
IEC 61097-2 (2008)

IMO MSC/Circ. 862  
Note: IMO MSC/Circ. 862 is applicable only to the optional remote activation device, not to the EPIRB itself.

This certificate replaces certificate no MED-B-15192 Rev. 00, 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.

Oslo, 2020-03-04

Date of expiry: 2025-03-03

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-15192

### SCHEDULE OF APPROVAL

#### Product description

Cospas-Sarsat Emergency EPIRB

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

Jotron TRON 60S/TRON 60GPS to be used on vessels and life rafts in the maritime service

TRON 60S/TRON 60GPS software version: 1.04

Minor software changes, represented by increasing the last 2 digits of the core revision number, are given with a notification to Nemko.

Major software changes, represented by increasing the first digit of the core revision number, must be recorded and documentation must be provided to Nemko for review and acceptance before implementation.

#### The EC Type-Examination Certificate covers the products listed below

| Item | Type                | Designation   | Manufacturer | Comment |
|------|---------------------|---|--------------|---------|
| 1    | TRON 60S/TRON 60GPS | – 406 MHz EPIRB (COSPAS-SARSAT)                                       | Jotron A/S   |         |
| 2    | Energizer L91       | Battery module, Lithium/Iron Disulfide (Li/FeS <sub>2</sub> ) battery | Jotron A/S   |         |
| 3    | Module 83057        | Software module   | Jotron A/S   |         |
| 4    | FB-60               | Automatic float free bracket  | Jotron A/S   |         |
| 5    | MB-60               | Manual bracket  | Jotron A/S   |         |

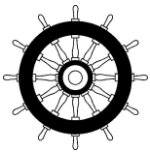
#### Trademarks

Products covered by this certificate are Jotron and OEM variants. Jotron variants are identified by the designation of TRON or Jotron followed a description.

Jotron: TRON 60S/TRON 60GPS – 406 MHz EPIRB (COSPAS-SARSAT)

## Type approval documentation

| Document   | Document no. | Rev.         | Do. |
|--|--------------|--------------|-----|
| Manual, Jotron AS: User Manual_UM_60GPS_E  | 83080        | L            | 001 |
| Manual, Jotron AS: Technical Manual_TM_60S_GPS_A   | 85866        | 13.01.2012   | 002 |
| Principle Diagrams, Jotron AS: Block Diagrams, Circuit Diagrams, Part/Component list, Label layouts          | ---          | ---          | 003 |
| Report, Omega: TEST REPORT No. 11/11 Issue 1., IEC 61097-2 (2008), IEC 60945 (2002) and RTCM 11000.2 (2002). | No. 11/11    | 4 Jan. 2012  | 004 |
| Report, Omega: TEST REPORT No. 11/10 , COSPAS-SARSAT EPIRB Type Approval TRON 60S                            | No. 11/10    | 14 Des. 2011 | 005 |
| Report, Omega: TEST REPORT No. 11/9 , COSPAS-SARSAT EPIRB Type Approval TRON 60GPS                           | No. 11/9     | 14 Des. 2011 | 006 |
| Certificate, COSPAS-SARSAT: Type Approval Certificate  | no. 222      | 2. Jan. 2012 | 007 |
| Statement, Jotron: Statement MED-B and MED D Certification   | ---          | 27.03.12     | 008 |



"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 -----