



# Bundesrepublik Deutschland

Federal Republic of Germany

## Bundesamt für Seeschifffahrt und Hydrographie

Federal Maritime and Hydrographic Agency



BUNDESAMT FÜR  
SEESCHIFFFAHRT  
UND  
HYDROGRAPHIE

# EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

Bundesamt für Seeschifffahrt und Hydrographie, specified as a "notified body" under the terms of „Schiffssicherheitsgesetz“ of 9. September 1998 (BGBl. I, p. 2860) modified last 08. April 2008 (BGBl. I, p. 706), did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Navigation requirements of Marine Equipment Directive (MED) 96/98/EC and the last modification by Directive 2009/26/EC.

Manufacturer **Jotron AS**  
 Address **Østbyveien 1, 3280 Tjodalyng, NORWAY**

Applicant **Jotron AS**  
 Address **Østbyveien 1, 3280 Tjodalyng, NORWAY**

Annex A.1 Item (No & item designation) **5.6 406 MHz EPIRB (COSPAS-SARSAT)**

Product Name **TRON 45SX**

Trade Name(s) **TRON 45SX**

### Specified Standard(s)

IMO Resolution A.662 (16)	IMO MSC/Circ.862
IMO Resolution A.694 (17)	C/S T001 (Nov. 2007)
IMO Resolution A.696 (17)	C/S T007 (Nov. 2007)
IMO Resolution A.810 (19)	ETSI EN 300 066 V 1.3.1 (2001)
ITU Recommendation M.633-1	IEC 61097-2 Ed. 3.0 (2008)
ITU Recommendation M.690-1	IEC 60945 Ed. 4.0 (2002)

Based on the Directive 2008/67/EC, additional applied version: Directive 2009/26/EC

This certificate remains valid unless cancelled, expired or revoked.

Date of Re-issue: 2009-10-19

Issued by: **Bundesamt für Seeschifffahrt und Hydrographie  
Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany  
Notified body 0735**

Expiry date: 2014-08-16

Certificate No.: **BSH/4612/5061446/09**

This certificate consists of 2 pages.



by order

*Jörn Kallauch*  
Jörn Kallauch



**Components necessary for operation:**

EPIRB TRON 45SX

4 SAFT LSH20 Lithium Thionyl Chloride Battery (Li-SOCL<sub>2</sub>)

Bracket Tron 45SX X97801

**Approval Documentation:**

Technical Manual Tron 45S/SX

Users Manual Tron 45S/SX

**Limitations on the acceptance or use of the product:**

These units are manual release, carry-off EPIRBs, complying with Annex 1 of IMO Resolution A.810(19) except clause 2.2. Their installation on vessels may be restricted by administrations until the mandatory carriage requirements of Category 1 EPIRBs are satisfied.

**Notes:**

The manufacturer shall inform Bundesamt für Seeschifffahrt und Hydrographie, as the notified body, of any modifications to the type-tested product(s) that may affect compliance with the requirements or conditions laid down for use of the product(s).

In case the specified regulations or standards are amended during the validity of this certificate, the product(s) must be re-certified before being placed on board vessels to which such amended regulations or standards apply.

The Mark of Conformity (wheelmark) may only be affixed to the type approved equipment, and a Manufacturer's Declaration of Conformity may only be issued, if the product quality system fully complies with the Marine Equipment Directive and is certified by a notified body against ANNEX B module D, E, or F of the Directive.

**Notice on legal remedies available:**

Objection to this document may be filed within one month after notification. The objection must be filed in writing to, or put on record at, Federal Maritime and Hydrographic Agency, Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany