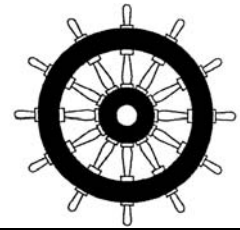




EC Declaration of Conformity



Manufacturer:

Jotron Electronics AS
Kirkestien 1
P. O. Box 54
3280 Tjodalyng
NORWAY

Type/Model:

Tron UAIS TR-2500

Description:

Universal Automatic Identification System

**The equipment complies with
the following Directives:**

MED 96/98/EC as modified by Directive 2002/75/EC
EMC 89/336/EEC

**Harmonized Standards
applied in order to verify
compliance with the
Directive(s):**

IEC 60945 (2002)
IEC 61993-2 (2001)
IEC 61162-1 (2000) –2 (1998)
IEC 61108-1 (1996)

**Test reports/Certificate(s)
issued by Notified Body:**

Bundesamt für Seeschifffahrt und Hydrographie
Bernard-Nocht-Str. 78
20359 Hamburg
GERMANY

Notified body 0735

**EU Type Examination
Certificate no. and date:**

MED D , BSH-048-04-2004-1 dated: 2004-04-22

Date:

2004.04.22

Signature:

A handwritten signature in black ink, appearing to read "Steinar Sæter".

Steinar Sæter
Managing Director



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 27. February 2004 (BGBl. I, p. 307), 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 as modified by Directive 2002/75/EC.

Applicant

Jotron Electronics as

Address

**PO Box 54
3280 Tjodalyng
Norway**

Manufacturer

Jotron Electronics as

Address

as above

Annex A.1 Item
(No & item designation)

A.1 4.32 Automatic Identification System (AIS)

Product Name

Tron UAIS TR-2500

Trade Name(s)

-

Specified Standard(s)

IMO MSC.74(69) Annex 3	IEC 61993-2 (2001)
ITU-R M.1371-1 (Class A)	IEC 61162-1 (2000), -2 (1998)
IALA Technical Clarifications of Rec. ITU-R M.1371-1 (Edition 1.3)	IEC 60945 (2002)
ITU-R M.825-3	IEC 61108-1 (1996)
ITU-R M.1084-3	

This certificate remains valid unless cancelled, expired or revoked.

Date of issue: 14.04.2004

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

Expiry date: --

Certificate No.: **734.2/0053-1/2004**

This certificate consists of 2 pages.



on behalf

Preuss



Components necessary for operation:

component	part-no.	remark
AIS unit TR 2500	80401	Software V. 01. 01. X
Junction Box	80564	
VHF Antenna, Procom CX L2-1	92598	or equivalent
GPS Antenna, Procom GPS 4	80611	or equivalent

The internal GPS sensor of the TR 2500 is used as a backup sensor for position reporting.

Optional components:

optional components	part-no.	remark
Combined GPS/VHF antenna, Procom AIS 2/GPS	80748	replaces GPS and VHF antenna

Documentation:

Operators Manual Tron UAIS TR-2500 Vers. C. 26.02.04

Installation Manual Tron UAIS TR-2500 Vers. D. 27.02.04

Technical Manual Tron UAIS TR-2500 Vers. B 27.02.04

Limitations on the acceptance or use of the product: -**Places of production:** -**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.

Example for the Application of the "Mark of Conformity":

xxxx number of the Notified Body responsible for quality surveillance module
yy Last two digits of the year in which the mark is affixed.

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



Bundesrepublik Deutschland

Federal Republic of Germany

Bundesamt für Seeschifffahrt und Hydrographie

Federal Maritime and Hydrographic Agency



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UND
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EC QUALITY SYSTEM (MODULE D) CERTIFICATE

Bundesamt für Seeschifffahrt und Hydrographie (Federal Maritime and Hydrographic Agency) as the notified body performing EC conformity assessment procedures in compliance with EC Council Directive 96/98/EC of 20 December 1996 on Marine Equipment, last amended by EC Council Directive 2002/75/EC of 2 September 2002, hereby certifies that the manufacturer

JOTRON Electronics a.s

P.O.Box 54

3280 Tjodalyng

NORWAY

maintains and applies a quality system in accordance with the requirements of the Maritime Equipment Directive Annex B, Module D.

Scope:

A.1/4.32 Universal automatic identification system equipment (AIS)

References:

Module B Certificate no. 734.2/0053-1/2004

Date of issue: 22. April 2004

Issued by: Bundesamt für Seeschifffahrt und Hydrographie

Expiry date: 21. April 2007

Identification number 0735

Registration no.: BSH-048-04-2004-1

This certificate consists of 2 pages



by order


Mühlhausen



Places of production (if different from client or where there are several)

Restrictions:

Notes:

This certificate authorises in conjunction with the EC Type Examination (Module B) Certificate of the equipment listed in the scope to affix the "Mark of Conformity" (wheelmark).

This certificate loses its validity if the manufacturer makes any changes or modifications to the approved quality system, which have not been notified to, and agreed with the notified body named on this certificate and/or after lapse of time, withdrawal or revocation of the EC Type Examination (Module B) Certificate.

"Wheelmark" Format and application:**0735/yy**

example

yy	Last two digits of the year in which mark is affixed.
0735	Notified Body number undertaking quality surveillance

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