



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 25. June 2004 (BGBl. I, p. 1391), 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

Kongsberg Seatex AS

Address

Pirsenteret
N-7462 Trondheim, Norway

Manufacturer

Kongsberg Seatex AS

Address

as above

Annex A.1 Item
(No & Item designation)

4.32 Automatic Identification System (AIS)

Product Name

AIS 110, AIS 200

Trade Name(s)

SIMRAD AI 70, AI 71, AI 80 (see appendix 1)

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: 15.10.2004

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

Expiry date: 14.10.2009

Certificate No.: 734.2/0047-6/2004
USCG Approval No.: 165.155/EC0735/0047-6

This certificate consists of 3 pages.



on behalf

Preuss



Components necessary for operation:

component / AIS110 version	part no.	remarks
AIS Transponder unit AIS 110	A101-05	software version tested: 2.00.0x
VHF Antenna	A100-58	Comrod AV7N or equivalent
GPS Antenna	A101-01	Trimble PN-41555-00 or Procom GPS4 (SIMRAD GPS4) or equivalent

component / AIS200 version	part no.	remarks
AIS Transponder unit AIS 200	A101-11	software version tested: 4.00.0x
Keyboard and display unit AIS 200 MKD	A101-12	
VHF Antenna	A100-58	Comrod AV7N or equivalent
GPS Antenna	A101-01	Trimble PN-41555-00 or Procom GPS4 (SIMRAD GPS4) or equivalent

AIS 110 and AIS 200 are different in mechanics, but functionally identical.

The internal GPS sensor of the AIS 110 / AIS 200 is used as a backup sensor for position reporting.

Optional components:

component	part no.	remarks
external Keyboard and display unit SIMRAD AIS MKD	A101-07	for AIS 110 and AIS 200

Documentation:

Instruction Manual: AIS 110 / AI 70 / AI 71 AIS systems Rev.1 , 2004-02-25

Instruction Manuals AIS 200 / AI 80: SIMRAD AI 80 User manual, Ed 0, 2004-09-17

SIMRAD AI 80 Installation Manual, Ed 0, 2004-09-17

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.

U.S. Coast Guard Approval:

The Manufacturer is allowed to affix the U.S. Coast Guard approval number (USCG approval number) as allowed by the „Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment“ signed February 27th, 2004.

The AIS radio transmitter is required to be authorized by U.S. Federal Communications Commission (FCC).

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

Appendix 1 to certificate 734.2/0047-6/2004

The equipment is also available under the following trade names:

SIMRAD AI 70:

components necessary for operation	part no.	remarks
SIMRAD AI 70 mobile station	A101-06	software version tested: 2.00.0x
Keyboard and display unit SIMRAD AIS MKD	A101-07	
VHF Antenna	A100-58	Comrod AV7N or equivalent
GPS Antenna	A101-01	Trimble PN-41555-00 or Procom GPS4 (SIMRAD GPS4) or equivalent

The SIMRAD AI 70 is technically and functionally identical to the AIS 110 except there is no internal MKD. For that reason the external SIMRAD AIS MKD is a required component.

SIMRAD AI 71:

components necessary for operation	part no.	remarks
SIMRAD AI 71 mobile station	A101-05	software version tested: 2.00.0x
VHF Antenna	A100-58	Comrod AV7N or equivalent
GPS Antenna	A101-01	Trimble PN-41555-00 or Procom GPS4 (SIMRAD GPS4) or equivalent
optional components	part no.	remarks
Keyboard and display unit SIMRAD AIS MKD	A101-07	

The SIMRAD AI 71 is technically and functionally identical to the AIS 110.

SIMRAD AI 80:

components necessary for operation	part no.	remarks
SIMRAD AI 80 mobile station	A101-11	software version tested: 4.00.0x
Keyboard and display unit SIMRAD AIS 80 MKD	A101-12	
VHF Antenna	A100-58	Comrod AV7N or equivalent
GPS Antenna	A101-01	Trimble PN-41555-00 or Procom GPS4 (SIMRAD GPS4) or equivalent

The SIMRAD AI 80 is technically and functionally identical to the AIS 200.