



Danmark

EXM-20200407IE-B

Annex to Marine Equipment Directive Module B Type Examination Certificate

1 Equipment Description

MF/HF Marine Transceiver

1.1 Models

1.1.1 System Components

Model	Description
GM800	Display and Transceiver Unit
AT-141	Antenna Tuner
HS-98	Handset

1.1.2 Optional Components

Model	Description
SP-24E	Speaker
HM-214H	Microphone

1.2 Software ^{Note 1}

Identity	Description
GM800 Firmware	Version 1.200

2 Assessed Requirements

2.1 Implementing Regulation (EU)2019/1397

2.2 Compliance Requirements for MED/5.14 ^{Note 2}

IMO Resolutions	International Testing Standards	
IMO Res. A.694(17)	EN 60945 (2002) incl. IEC 60945 Corr.1 (2008)	Maritime navigation and radiocommunication equipment and systems — General requirements
IMO Res. A.804(19) IMO Res. A.806(19) IMO COMSAR Circ.32 IMO MSC.1/Circ.1460 ITU-R M.476-5 (10/95) ITU-R M.492-6 (10/95) ITU-R M.493-13 (10/09) ITU-R M.541-9 (05/04) ITU-R M.625-4 (03/12) ITU-R M.1173-1 (03/12)	EN 61162-1 (2016)	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 1: Single talker and multiple listeners
	ETSI EN 300 338-1 V1.4.1 (2017-02)	Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service; Part 1: Common requirements
	ETSI EN 300 338-2 V1.4.1 (2017-02)	Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service; Part 2: Class A/B DSC
	ETSI EN 300 373-1 V1.4.1 (2013-09)	Maritime mobile transmitters and receivers for use in the MF and HF bands

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IMO Resolutions	International Testing Standards	
	ETSI EN 301 843-5 V2.1.1 (2016-03)	Technical characteristics and methods of measurement for shipborne watchkeeping receivers for reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and VHF bands
	IMO MSC/Circ.862	Clarifications Of Certain Requirements In IMO Performance Standards For GMDSS Equipment

3 Technical Documentation

3.1 Declaration of Conformity

GM800 DoC Modified 2019-12-20

3.2 User Guide

MF/HF Marine Transceiver GM800 Full Manual Issued 2017-12-04
HF Automatic Tuner AT-141 Instruction Manual Issued 2017-12-04

3.3 Test Reports

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

75934114 Report 05 Issue 1 Issued 2017-12-14
JPX-TR-16145-1 Issued 2018-02-22
9982-R01 Issued 2017-02-10

3.3.2 ETSI EN 300 338-1 V1.4.1 (2017-02)

75934114 Report 03 Issue 2 Issued 2018-02-22
75934114 Report 01 Issue 2 Issued 2018-02-21
GM800 Update Document Issue 01 Issued 2019-12-17

3.3.3 ETSI EN 300 338-2 V1.3.1 (2017-02)

75934114 Report 04 Issue 2 Issued 2017-12-01
GM800 Update Document Issue 01 Issued 2019-12-17

3.3.4 ETSI EN 300 373-1 V1.4.1 (2013-09)

75934114 Report 02 Issue 2 Issued 2018-02-21

3.3.5 ETSI EN 301 843-5 V2.1.1 (2016-03)

JPX-TR-16145-1 Issued 2018-02-22
Testing coverage declaration_180126 Dated 2018-01-26

3.3.6 EN 61162-1 (2016)

75934114 Report 06 Issue 1 Issued 2017-11-28
GM800 Update Document Issue 01 Issued 2019-12-17

3.4 Build Status

3.4.1 Hardware

GM800 Schematic.pdf Issued 2017-01-06
AT-141 Schematic.pdf Issued 2017-01-06
HM-214H Schematic.pdf Issued 2017-01-06
GM800 Parts List.pdf Modified 2017-11-30
AT-141 Parts List.pdf Modified 2017-11-30
HM-214H Parts List.pdf Modified 2017-11-30



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3.5 Notes

- Note 1 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the TÜV SÜD Testing and Certification Regulations.
- Note 2 The GM800 does not support optional NBDP operation as per IMO Res. A.804(19).
- Note 3 The GM800 is capable of operating within the 415 kHz – 526.5 kHz band however compliance has not been assessed.
- Note 4 (EU)2019/1397 gives a last placing on board date of 29/08/2021 for equipment approved against the test standards listed above. See Conditions of Validity.

4 Conditions of Validity

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with TÜV SÜD DANMARK ApS or a person appointed by TÜV SÜD DANMARK ApS to perform that role.

Should the specified regulations (internal conventions and the relevant resolutions and circulars of the IMO) or standards be amended and enforced through an Implementing Regulation during the validity of this certificate, the product(s) is/are to be reapproved prior to it/them being placed on the market or onboard vessels to which the amended regulations or standards apply.

The Mark of Conformity 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, E, or F) of Annex B of the directive is fully complied with and controlled by a written inspection agreement with a notified body.

Signature: T. J. Twynam

Date: 2020-04-01

Print Name: Tom Twynam

On behalf of TÜV SÜD Danmark ApS