



Danmark

Marine Equipment Directive EC Type Examination Module B Certificate

This is to certify that TÜV SÜD Danmark did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Marine Equipment Directive (2014/90/EU) requirements, under the following Implementing Regulation for the listed types of equipment

Implementing Regulation	(EU)2019/1397
Certificate Holder and Manufacturer	Icom Inc. 1-1-32 Kamiminami Hirano-ku Osaka 547-0003 Japan
EC Representative	Icom (Europe) GmbH Auf der Krautweide 24 65812 Bad Soden am Taunus Germany
Product(s)	GM600
Product Sector	Radiocommunication Equipment
Product Type	MED/5.1 VHF radio capable of transmitting and receiving DSC and radiotelephony

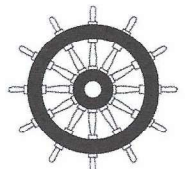
and on the basis of the Technical Data and information detailed in the Annex to this certificate.

Valid from: 31 December 2019


(Tom Twynham)

Expiry Date: 09 November 2021

This certificate has been issued in accordance with the TÜV SÜD Testing and Certification Regulations and constitutes page 1 of the combined Certificate and Annex. The Conditions for the validity of this certificate are listed in the Annex. For further details, related to this certification please contact BABT@TUV-SUD.co.uk



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TÜV SÜD Danmark • Tuborg Boulevard 12.3 • 2900 Hellerup • Denmark

Annex to Marine Equipment Directive Module B Type Examination Certificate



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EXM-20200109IE-B

1 Equipment Description

VHF Marine Transceiver

1.1 Models

1.1.1 System Components

Model	Description
GM600	VHF Transceiver
HS-98	Handset
PS-310	12-24 DC/DC Power Supply

2 Assessed Requirements

2.1 Implementing Regulation (EU)2019/1397

2.2 Compliance Requirements for MED/5.1

IMO Resolutions	International Testing Standards	
IMO Res A.385(X) IMO Res.A.524(13) IMO Res. A.803(19) IMO MSC/Circ.862 IMO MSC.1/Circ.1460	ETSI EN 300 338-1 V1.4.1 (2017-02)	Electromagnetic compatibility and Radio spectrum Matters (ERM); 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)	Part 2: Class A/B DSC
	ETSI EN 301 843-2 V2.1.1 (2016-03)	Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services; Part 5: Specific conditions for VHF radiotelephone transmitters and receivers
	ETSI EN 301 925 V1.5.1 (2017-10)	Electromagnetic compatibility and Radio spectrum Matters (ERM); Radiotelephone transmitters and receivers for the maritime mobile service operating in VHF bands; Technical characteristics and methods of measurement
IMO Res.A.694(17)	EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008)	Maritime navigation and radiocommunication equipment and systems — General requirements
	EN 61162-1 (2016)	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 1: Single talker and multiple listeners

3 Technical Documentation

3.1 Declaration of Conformity

GM600 DoC Modified 2019-10-31

3.2 User Guide

GM600 Instruction Manual, A-7239D-1EU-2 Dated 2016-09-01



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3.3 Test Reports

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

75931395 Report 01 Issue 1	Issued	2016-08-09
75931395 Report 07 Issue 2	Issued	2016-10-07
75931395 Report 02 Issue 1	Issued	2016-08-23
9624-R03	Issued	2016-01-22

3.3.2 ETSI EN 300 338-1 V1.3.1 (2010-02) & ETSI EN 300 338-2 V1.3.1 (2010-02)

75931395 Report 04 Issue 2	Issued	2016-11-02
75931395 Report 01 Issue 1	Issued	2018-08-09
9624-R03	Issued	2016-01-22
GM600 Update Document Issue 02	Dated	2019-11-29

3.3.3 ETSI EN 301 843-2 V2.1.1 (2016-03)

75931395 Report 02 Issue 1	Issued	2016-08-23
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3.3.4 ETSI EN 301 925 V1.4.1 (2013-05)

75931395 Report 03 Issue 2	Issued	2016-11-02
75931395 Report 06 Issue 1	Issued	2016-08-09

3.3.5 EN 61162-1 (2011)

75931395 Report 05 Issue 1	Issued	2016-08-05
GM600 Update Document Issue 02	Dated	2019-11-29

3.4 Build Status

3.4.1 Hardware

Overall Build Level	Issue 1.006		
Schematic.pdf		Dated	2016-08-31
Parts_List.pdf		Dated	2016-09-02

3.4.2 Software

Issue 1.200

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 (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 or a person appointed by TÜV SÜD Danmark to perform that role.

Should the specified regulations or standards be amended 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: <u>Tom Twynam</u>	Date: <u>2019-12-31</u>
Print Name: <u>Tom Twynam</u>	
On behalf of TÜV SÜD Danmark	