

TYPE EXAMINATION CERTIFICATE – EC MODULE B

Certificate no.:
MEDB00008ZE

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

that the Public Address and General Alarm Systems (PAGA):-Control and distribution system

with type designation(s)
GICOM-PAGATELSYS

issued to

GICOM S.r.l.
Genova, GE, Italy

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2024/1975,**

item No. MED/1.44a. SOLAS 1974 as amended, Regulation II-2/12,21,22, III/4, 6 & X/3, LSA Code VII, HSC Code 4,8, IMO MSC.302(87),IMO MSC.1/Circ. 808, 1369/Add.1

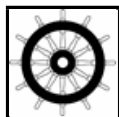
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2030-08-21**.

Issued at **Høvik** on **2025-08-22**

DNV local unit:
Italy/Malta CMC

Approval Engineer:
Steinar Kristensen



for **DNV AS**

Notified Body
No.: **0575**

Mydlak-Röder, Christine
Head of Notified Body



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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

The GICOM-PAGATELSYS can be provided in different configurations for the functions of General Alarm (GA) and Public Address (PA) for the below types of installations:

Vessel Type	System Type		
Cargo	GA	PA	PA/ GA
Passenger	GA	PA	PA/ GA
Passenger SRtP	GA	PA	PA/ GA

The GICOM-PAGATELSYS Public Address and General Alarm System comprises the following modules¹⁾:

Equipment type	Description	Module ²⁾	Firmware version ³⁾	Env.
Main processor Unit, PA/GA system	19" Subrack, suitable for installing Gicom Main Processor Unit boards as listed below:	G-MPU-SUBRCK	-	Protected
	Main Processor PCB c/w power supply unit	G-MPU-MAIN	N004_Main_F007_MED_yyy	
	Audio Controller PCB suitable to manage analogue and digital audio	G-MPU-AUDIO	N001_Audio_F011_yyy	
	200 W Amplifier PCB with 2x100W output channels or 1x200W output channel	G-MPU-AMP	N015_Amp_F013_yy	
	Audio Extender PCB suitable to manage additional audio inputs	G-MPU-AUDIOEXT	-	
	RS485 Extender PCB suitable to manage RS485 network inputs and interconnections	G-MPU-RS485EXT	-	
G-MPU-RS485HUB	RS485 HUB PCB with up to 8 independent RS485/digital lines	G-MPU-RS485HUB	-	Protected
G-MPU-INOUT	INOUT PCB with 8 inputs, 8 relay outputs and 16 configurable GPIO	G-MPU-INOUT	N006_InOut_F015_yyy	Protected
PA and GA panels	Remote Control Panel, wall/console, with handheld or gooseneck microphone	G-RCP-xx-xxx	N005_RCP_F008_yyy	Protected
	General Alarm Unit, wall/console mount, with handheld or gooseneck microphone	G-GAU-11-xxx		Protected
	General Alarm Unit, wall mount	G-GAU-12-Wxx		Protected
GA pushbutton	Push Button with green led	G-GAU-PB-xx	-	Exposed
Muting box	Muting box with or without transformer	G-SPK-JB-x	-	Exposed
Microphones	Handheld Microphone	G-MIC-11-x	-	Exposed
	Gooseneck Microphone	G-MIC-12	-	Protected

¹⁾ Actual configuration may vary based on requirements for individual installations.

²⁾ xxx indicate different variants of the modules such as headset/microphone versions, number of buttons, type of mounting etc.

³⁾ yyy in the Firmware version identifies customer/project specific configurations of the application.

Application/Limitation

- The PAGATELSYS is to be installed according to the manufacturer's instructions.
- PAGATELSYS may be provided with additional functions for Automatic Telephone and Handsfree Voice Talk Back functionality, ref certificate TAA00002A9.
- Any PA panel which is not used for activation of Emergency PA shall have a lower priority than GA.
- Access panels with functions for activation of Emergency PA and GA shall be provided with means to avoid unintended use. Keys shall be clearly labelled.
- When installed as combined PA/GA system, minimum two independent speaker loops are required.

Type Examination documentation

DNV No	Document ID	Rev.	Description
2	137140F-H	01	Report: TesLab, Environmental test report for Handheld microphone MIC-11
3	137140F-I	01	Report: TesLab, Environmental test report for G-MIC-12
4	137140F-L	01	Report: TesLab, Environmental test report for Junction box G-SPK-JB and Pushbutton with green LED G-GAU-PB-12
6	23B362E	2024-01-22	Report: TesLab, EMC radiated emissions and immunity test up to 6GHz for Main processor unit subrack and Gicom panel
7	137140F-A	01	Report: TesLab, EMC and environmental test report for Integrated Alarm, Public address and Internal Communication system
13	254122A-a	2025-06-17	Report: TesLab, Environmental test report for GICOM Main Processor Unit
18	G-MSU-USRMAN	Ver.02, Rev.02	Manual: GICOM, GICOM Integrated PA/GA, Internal Communication & Automatic Telephone User & Installation Manual
21	G-MED_Test_Report	Ver.01, Rev.00	Report: Gicom, PAGATELSYS MED test report
22	TAA00002A9	Latest rev.	Certificate: DNV, Type Approval certificate for PAGATELSYS Automatic Telephone and Voice Talk-back system

Tests carried out

- Environmental testing: IEC 60945 (2002) incl. Corr.1(2008) *)
- Performance testing: EN 50695 (2021)
- Interface testing: IEC 61162-1 (2016) and IEC 61162-1 (2024)
- Presentation of information: IEC 62288 (2021)
- Bridge Alert Management IEC 62923-1 (2018) and IEC 62923-2 (2018)

*) EMC has also been tested in the range 2 GHz to 6 GHz

Marking of product

The type designation and name and contact address of the manufacturer shall be affixed visibly, legibly and indelibly to the product. In addition the product shall be marked with serial/batch number and safe distance to magnetic compass.