



EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED037623CS/004

This is to certify that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2022/1157.

<i>MED Item N°</i>	MED/3.51g; MED/3.51h
<i>Description</i>	Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces (g) Short circuit isolators (h) Input/output devices
<i>Type</i>	Loop I/O Distributed Modules
<i>Applicant</i>	MICRODATA DUE SRL VIA GRETI DEL VARA 9 19020 FOLLO (SP) ITALY
<i>Testing standards</i>	EN 54-18: 2005 incl. AC: 2007; EN 54-17: 2007 incl. AC: 2007; IEC 60092-504: 2016; IEC 60533: 2015
<i>Reference standards</i>	SOLAS 74 Reg. II-2/7; SOLAS 74 Reg. X/3; IMO Res. MSC.36(63)-(1994 HSC Code) 7; IMO Res. MSC.97(73)-(2000 HSC code) 7; IMO Res. MSC.98(73)-(FSS Code) 9; IMO Res. MSC.391(95)-(IGF Code) 11; IMO MSC.1/Circ 1242; RINA Rules for the certification of Marine Equipment
<i>Issued in Genoa on</i> February 22, 2023	<i>This Certificate is valid until</i> February 21, 2028

This Certificate consists of this sheet plus an attachment

Luigi Benedetti

RINA Services S.p.A.



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Manufacturer

MICRODATA DUE SRL

Place of Manufacturer

VIA GRETI DEL VARA 9
19020 FOLLO (SP)
ITALY

Loop I/O modules:

Loop Interface modules	MD9840, MD9840 B
Loop Interface Input / Output module (DIN-Rail)	MD2208 COB
Loop Interface Input / Output Control Board	COB Standard Version
Loop Interface Input / Output Control Board	COB Stand Alone Version
Loop Interface Input / Output Control Box	MD9842
Timer unit	MD9870

Reference documents:

Microdata Due doc. n° ST23514 Rev. B ,	MD9840, MD9840 B - Technical specification
Microdata Due doc. n° D24726 Rev. F	MD9840, MD9840B - Data sheet
Microdata Due doc. n° D32305 Rev. C	MD 2208 - Data sheet
Microdata Due doc. n° D30137 Rev. A	COB Control Board - Data sheet
Microdata Due doc. n° D32307 Rev. B	MD9842 Control Box - Data sheet
Microdata Due doc. n° D27931 Rev. E	MD9870 - Data sheet
Microdata Due doc. n° D36611 Rev. 0	MD9840, MD9840B, MD2208, COB, MD9842 Sw. description
Microdata Due doc. n° D36627 Rev. 0	EN 54-18 Test Procedure
Microdata Due doc. n° D37788 Rev. A	MD9840-B(a) Data sheet
Microdata Due doc. n° IM29185 1-40014 Rev. 0	System Test Dwg. (IEC 60092-504 2016)
Microdata Due doc. n° IM29185 2-40014 Rev. 0	System Test Dwg. (IEC 60092-504 2016)

Test report :

TesLab report n° 051014F-2; Microdata Due functional test IS24738 report n°687	MD9860
TesLab reports n° 051014F-6; n° 051014F-7, 07A153F	MD9840, MD9840B
RINA Functional test _ Test Rule Fire Detection System IM-27375, doc. IS28961 rev. B n. 474 (12/11/2008) TesLab Functional test _ Test Rule Fire Detection System IM-27375 Annex B doc. IS28961 rev. B n. 514 to 533 (15/ 12 / 08 - 23/01/2009) TesLab Functional test _ Test Rule Fire Detection System IM-27375, doc. IS28961 rev. B n. 13/09 (05 / 03 /2009) TesLab Environmental report n. 08C189F-2 (23/ 02 /2009)	MD9870
RINA Functional test _ Test Rule Fire Detection System IM-28462, doc. IS32331Rev.A _ report n. 037/13 (14/01/13)	MD2208 COB I/O Module COB Board Stand Alone ver. MD9842 I/O Box
TesLab Environmental report n. 12C243F-B (04/04/2013)	MD9842 + COB Std. Ver.
TesLab Environmental report n. 12C243F-C (04/04/2013)	COB Board Stand Alone Ver.
TesLab Environmental report n. 12C243F-D (04/04/2013)	MD2208 COB
Microdata Due doc. IS31241 Rev. 0 Test n. 107/12 (09/02/12)	RINA functional tests acc. to Dwg. IM-28185-40014
Microdata Due doc. IS31241 Rev. 0 Annex A (09/02/2012)	Compliance Matrix to EN-54
Microdata Due doc. IS31241 Rev. 0 Annex B (09/02/2012)	Compliance Matrix to FSS Code
Microdata Due doc. D31249 Rev. 0 (09/02/2012)	Failure Mode and Effect Analysis
RINA doc. n. 655 (02/08/2016) (D36627 rev.0)	EN 54-18 _ Functional test

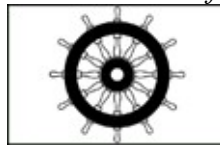
Test report:

<i>Microdata Due</i> doc. IS32331 Rev. D Test n° 1001/17 (22/12/17)	Functional Test acc. to dwg. IM29185_2-40014 (IEC 60092-504_2016)
<i>Microdata Due</i> doc. IS32331 Rev. C Test n° 1000/17 (22/12/17)	Functional Test acc. to dwg. IM29185_1-40014 (IEC 60092-504_2016)
<i>TesLab</i> report n° 17C330E-a (EMC Test as IEC60092-504_2016)	MD2208 and COB I/O Modules
<i>TesLab</i> report n° 17C330E-b (EMC Test as IEC60092-504_2016)	MD9842 Fire Door I/O Box with COB I/O Board
<i>TesLab</i> report n. 17C331E-a (EMC Test as IEC60092-504_2016)	MD9870 Timer
<i>TesLab</i> report n° 17C331E-b (EMC Test as IEC60092-504_2016)	MD9840 and MD9840B I/O Modules
<i>Microdata Due</i> doc. D36701 rev. 0 Risk Assessment	Fire detection system I/O Modules



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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 II of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YYYY

"WHEELMARK FORMAT"

XXXX *Notified Body number undertaking surveillance module*
YYYY *The year in which the mark is affixed*

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reappraised prior to it being placed on board vessels to which the amended regulations or standards apply.

Luigi Benedetti