



EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED037623CS/001

***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/3.51a; MED/3.51b
<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 (a) Control and indicating equipment (b) Power supply equipment
<i>Type</i>	MD 2010
<i>Applicant</i>	MICRODATA DUE SRL VIA GRETI DEL VARA 9 19020 FOLLO (SP) ITALY
<i>Testing standards</i>	EN 54-2:1997 incl. AC:1999 and A1:2006; EN 54-4:1997 incl. AC:1999, A1:2002 and A2:2006; IEC 60092-504:2016; IEC 60533:2015; Type Test IACS UR E10
<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 Res. MSC.1/ Circ 1487; IMO MSC.1/Circ 1242; IMO MSC. 1/Circ 1528; IMO MSC. 1/Circ 1554; RINA Rules for the certification of Marine Equipment

Issued in Genoa on
February 22, 2023

This Certificate is valid until
August 14, 2025

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

Product description:

Analogue and addressable Fire detection and fire alarm system consisting of:

- **Fire alarm control panel** MD2010-CU (P/N-27663)
- **Expansion branch module** MD2010-BR (P/N-27684)
- **Branch control unit** BCU (P/N-27672)
- **Loop control unit** LCU (P/N-26133)
- **Power supply module** MD2010-PS (P/N-27677)

Fire Alarm Central Unit is able to work in the following configurations:

- a) for the management of Centralized Systems (Only one Central Unit) or distributed system (several central unit net connected) ; detectors are connected in a *Loop* configuration.
- b) for the management of Distributed System, detectors are connected on open electric lines named *Branch*

Main features:

Up to 16 detection Loops are managed through Loop Control Unit LCU card

Up to 16 detection Branch by means of Branch control Unit BCU card

The branch number can be increased up to 20 by using external expansion module MD2010-BR

Up to 127 devices may be connected to each loop

Up to 180 devices may be connected to each Branch

The central units are able to detect any fault occurring on the system (eg. Loop/ Branch cable break, detector failure, etc.)

The central units provides the following additional functions:

- 3 outputs: N.O. / N.C. relay contact with standard functions
- 16 outputs: N.O. /N.C. relay contacts with programmable functions
- 4 inputs: contacts, with programmable functions

Alarm repeater Serial Line (MD9860)

Ethernet connection to other Central Unit allowing full data sharing and functionality

Printer Serial Line

Microdata Due Software description:

doc. n. D29055 Rev. 0: Fire Alarm Central Unit MD2010-CU Software Requirements (14/04/2010)

doc. n. D29056 Rev. 0: Fire Alarm Central Unit MD2010-CU Architectural Design Document

doc. n. PDQ29059 (01/04/10): MD2010-CU Software Quality Plan.

Microdata Due Reference documents:

Technical specification: doc. n. ST29060 Rev. 0 (01/04/2010)

Data sheets: D29061 Rev. C ; D29065 Rev. C; D30091 Rev.B; D27930 Rev. E; D30093 Rev. B

Drawings: CM-27663-40007, CM-27663-40010, CM-27663-40014, CM-27775-9U-40010, CM27677-40007, CM-27677-40010, AS-27668-20002, AS-27670-20002, AM-27675-30007, AS-27672-20002, CM-27684-40007, CM-27684-40010, AS-27778-20002, IM-29642-40014

Risk Assessment: doc. D36694 rev. 0

FMEA Microdata Due doc. n. D30099 Rev. 0

Test reports :

RINA report file 10SP73101 (03/11/2010)- Doc. Microdata Due IS29064 Annex A, B and C (Conformity to EN 54-2, EN 54-4 and FSS code as amended.)

Microdata Due IS 29064 Demo for Rina Certification: report n.981/10_30/09/2010

TesLab / Microdata Due Functional test: report n. 1099/10_28/10/2010

TesLab / Microdata Due Functional test: report n. 1150/10_08/11/2010

TesLab / Microdata Due Functional test: report n. 2159/10_23/12/2010

TesLab/ Environmental report doc. n. 10A167F (13/01/11)

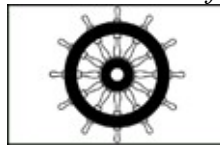
TesLab/ EMC report doc. n. 17B302E-d (EN60092-504:2016)

TesLab/ Microdata Due Functional test: report n. 0974-17 (28/11/2017)



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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