



EC TYPE EXAMINATION (Module B)

N. MED098021CS001

This is to certify that RINA Services S.p.A. (Notified Body n° 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) 2020/1170

MED Items N°	MED/ 3.51 (d); MED 3.51/ (g)
Description	Fixed fire detection and fire alarm systems, components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces. d) Smoke detectors: Point detectors using scattered light, transmitted light or ionization g) Short circuit isolators
Type	MD9900 smoke detector including short circuit isolator in conjunction with fire detector bases: MD9900 BC; MD9900 BCI; MD9900 BS; MD9900 BSI; MD9900 BBZ; MD9900 BBZI; MD9900 BSZ; MD9900 BSZI; MD9900-BC-PT; MD9900-BCI-PT; MD9900-BBZ-PT; MD9900-BBZI-PT; MD9900-BS-PT; MD9900-BSI-PT; MD9900-BSZ-PT; MD9900-BSZI-PT
Applicant	MICRODATA DUE S.r.l. Via Greti del Vara 9 19020 Follo (SP) ITALY
Testing Standards	EN 54-7: 2018; EN 54-17: 2005 + AC: 2007 IEC 60092-504: 2016; IEC 60533: 2016; IACS UR E10 Type Tests
Reference Standards	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.
Issued at Genoa on June 21, 2021	This Certificate is valid until June 21, 2026

This Certificate consists of 4 pages

RINA Services S.p.A.

Luigi Benedetti





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Manufacturer:

MICRODATA DUE S.r.l.

Place of manufacturing:

Via Greti del Vara , 9
19020 Follo (SP)
Italy

Products description:**MD 9900 Smoke detector**

Analogue, addressable microprocessor based photoelectric smoke detector including a temperature sensor for analog measurement

Reference documents:

Microdata Due	ST21405 rev. C	Technical specification
Microdata Due	D23583 rev. A	Software description
Microdata Due	D24728 rev. F	Data sheet:
Microdata Due	D36688 rev. 0	Risk Assessment
Microdata Due	D36647 rev. 0	Comparing Lexan 920 and Lexan 923 resin

Test Reports:

BRE Laboratory	Report n. TE 213449/A, (03/10/2007)	Env./Performance
BRE Laboratory	Report n. TE 213449 SW, (17/11/2004)	Software Evaluation
Microdata Due	Report n. 196 annex to IS24743 Rev. 0 (22/02/2005)	Functional Test
Istituto Giordano Lab	Report n. 213254, (30/06/2006)	Enclosure Protection
	IP 32 with detector bases MD9900-BC and MD9900BCI	
	IP 65 with detector bases MD9900-BS and MD9900-BSI	
Teslab Laboratory	Report n. 17B302E-a	EMC (EN60092-504:2016)
Teslab/ Microdata Due	Report n. 0974-17 (28/11/2017) Functional test as procedure IS37789 Rev.0 (EMC_ IEC 60092-504:2016)	
Teslab Laboratory	Report n. 214123-E (2021-05-10) - (EMC_EN50130-4: 2011+A1:2014)	

Fire detector bases

The following detector bases may be used **in connection with MD9900 detectors**

Models MD9900 BC or MD9900-BC-PT and MD9900 BCI or MD9900-BCI-PT detector bases

(IP 32 in connection with the MD9900 detectors) for false ceiling installation;

Models MD9900-BCI or MD9900-BCI-PT in addition contain a short-circuit isolator

Models MD9900-BC-PT and MD9900-BCI-PT are suitable for connection to PTS Satellite

MD 9900 BS or MD9900-BS-PT and MD 9900-BSI or MD9900-BSI-PT detector bases:

(IP65 in connection with the MD9900 detectors)

Models **MD9900-BSI or MD9900-BSI-PT** in addition contain a short-circuit isolator

Models MD9900-BS-PT and MD9900-BSI-PT are suitable for connection to PTS Satellite

Reference documents:

Microdata Due	T21405 Rev. C	Technical specification
Microdata Due	D24729 Rev. E	Data sheet
Microdata Due	D24730 Rev. E	Data sheet
Microdata Due	D36618 Rev.0	Functional Test Procedure

Test reports:

Ist. Giordano Lab.	Report n.213254, (30/06/2006) IP32 and IP65 protection with MD9900 detector
BRE Laboratory	Report n. TE213449/A, (03/10/2007) _ Environmental / Performance
Microdata Due	Test procedure n. IS 34434 _ Report 822/14 testing on 16/05/2014
Microdata Due	Report n. 196 annex to IS-24743 Rev. 0, (22/02/2005) _ Functional Test
Microdata Due	Report n. D36618 Rev.0 (13/07/2016) - Functional Test Procedure
Microdata Due	Report n. 656/16 (02/08/2016)
Teslab Laboratory	Report n. 214123-E (2021-05-10) - (EMC_EN50130-4: 2011+A1:2014)



N. MED098021CS001

Fire detector bases with buzzer

The following **detector bases** may be used in conjunction with **MD9900 detectors**:

MD9900-BBZ and **MD9900-BBZI** or **MD9900-BBZ-PT** and **MD9900-BBZI-PT** fire detector bases (IP 32 in connection with the MD9900 detector) include a Buzzer suitable for warning a fire alarm in accommodation spaces. Models **MD9900-BBZI** or **MD9900-BBZI-PT** in addition contain a short circuit isolator. Models **MD9900-BBZ-PT** and **MD9900-BBZI-PT** are suitable for connection to PTS Satellite

MD9900-BSZ or **MD9900-BSZ-PT** and **MD9900-BSZI** or **MD9900-BSZI -PT** fire detector bases (IP 65 in connection with the MD9900 detector) include a Buzzer suitable for warning a fire alarm in a crew spaces. Models **MD9900-BSZI** or **MD9900-BSZI -PT** in addition contain a short circuit isolator. Models **MD9900-BSZ-PT** and **MD9900-BSZI -PT** are suitable for connection to PTS Satellite

Reference documents:

<i>Microdata Due</i>	Data sheet n. D27897 Rev. E ;
<i>Microdata Due</i>	Data sheet n. D29020 Rev. B
<i>Microdata Due</i>	Report n. 474 annex to IS -28961 Rev. B, (12/11/2008) _ Functional tests
<i>Microdata Due</i>	Letter PRO051/09 (10/03/09)
<i>Microdata Due</i>	Functional Test Procedure n. D36618 Rev.0

Test reports:

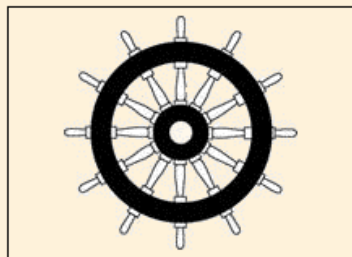
<i>Istituto Giordano</i>	Report n. 213254, (30/06/2006)
<i>TesLab Laboratory</i>	Report n. 08C189F-3 (23/02/2009) _ Environmental / Performance
<i>Microdata Due</i>	Test Procedure n. IS 34434 _ report 822/14 testing on 16/05/2014
<i>Microdata Due</i>	Report n. D36618 Rev.0 (13/07/2016) - Functional Tests
<i>Microdata Due</i>	Report n. 656/16 (02/08/2016)
<i>Teslab Laboratory</i>	Report n. 214123-E (2021-05-10) - (EMC_EN50130-4: 2011+A1:2014)



Attachment to

CERTIFICATE n. MED098021CS001

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"

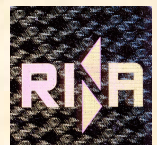
*XXXX Notified Body number undertaking surveillance module
YYYY The year in which the mark is affixed*

General condition 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 reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.

RINA Services S.p.A.

Luigi Benedetti



Page 4(4)