



TYPE APPROVAL CERTIFICATE

N. **ELE098021CS001**

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA Type Approval system

Description	Fixed fire detection and fire alarm system: Smoke detector including Short circuit isolator
Type	MD9900 smoke detector 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 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

*Issued at Genoa on
June 21, 2021*

*This Certificate is valid until
June 21, 2026*

This Certificate consists of 3 pages

RINA Services S.p.A.

Luigi Benedetti





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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)





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Fire detector bases with buzzer

The following **detector bases** may be used in connection 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:

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

Test reports:

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

