



EC TYPE EXAMINATION (Module B)

N. MED070321CS002

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 (c); 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. (c) Heat detectors - Point detectors (g) Short circuit isolators
Type	MD9907-A1; MD9907-B; MD9907-C; MD9908
Applicant	MICRODATA DUE S.r.l. Via Greti del Vara 9 19020 Follo (SP) ITALY
Testing Standards	EN 54-5: (2017) incl. A1 (2018); EN 54-17: (2005) incl. AC (2007); IEC 60092-504: 2016; IEC 60533: 2015; 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. MSC391(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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N. MED070321CS002

Manufacturer:

MICRODATA DUE S.r.l.

Place of manufacturing:

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

Products description:

Series MD9907 Automatic, Addressable, Analogue heat detector:

Main features:

- Provide fire alarm for high temperature
- Monitoring of the temperature inside the room where it is installed
- Send to the Central Unit the temperature analogue values
- Include short circuit isolator functionality

MD9907-A1 IP 67 Heat Detector **A1 Class**; Alarm threshold: **54°C to 65°C**
MD9907-B IP 67 Heat Detector **B Class**; Alarm threshold: **69°C to 85°C**
MD9907-C IP 67 Heat Detector **C Class**; Alarm threshold: **84°C to 100°C**

The MD 9907 case is available with different mounting of cable glands, so as to facilitate mounting operation in various situation.

The detector continuously monitors the thermistor component and is able to provide a fault signalization in case of sensor failure.

The communication through the Loop with Central Unit is performed by control cards, which provide to the detectors the 24Vdc power supply on which a serial transmission signal using MD2 protocol is modulated.

If an alarm is detected an optical signalization (red LED) on the detector housing flashes.

Microdata Due specifications:

Technical Specification: ST36604 rev. B
Datasheet: D35546 rev. B
Software description: SDD36634 rev. 0
Risk Assessment: D36690 rev. 0

Test Reports:

BRE GLOBAL Ltd Test Report n. TE-P103830-1001 rev. 02

(Technical evaluation of the Microdata Due S.r.l. MD-9908 and MD-9907 Analogue Addressable Heat Detectors with Short Circuit Isolator to EN 54-5: (2017) incl. A1 (2018) and EN 54-17:2005 incl. AC (2007)

TesLab n°. 166117F - a (05/09/2016); n. 166117F - b (05/09/2016); n. 166117F - c (05/09/2016)
(RINA Rules – Pt C, Ch 3, Sec 6)

TesLab n. 17B302E-b (EMC _ EN60092-504: 2016)

TesLab/Microdata Due: n. 0974-17 (28/11/2017) Functional test as procedure IS37789 Rev.0
(EMC IEC 60092-504:2016)





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MD9908 Automatic, Addressable, Analogue heat detector :

Main features:

MD 9908 detector consists of two parts:

- **The sensor**, (IP67) to be installed in the room to be monitored
- **The Loop Interface Box**, (IP 66) also includes short circuit isolator and LED Fire signaling (to be mounted outside of the monitored space)
Sensors and Interface box are connected each other with a 30 meters maximum length cable
- Fire alarm for high temperature
- Monitoring of the temperature inside the room where it is installed
- Send to the Central Unit the temperature analogue values
- Short circuit isolator functionality

MD9908 IP66 Loop interface and IP 67 Heat detector **F Class**; Alarm threshold: **129°C to +145°C**

The detector continuously monitors the thermistor component and is able to provide a fault signalization in case of sensor failure. The communication through the loop with Central Unit is performed by control cards, which provide to the detectors the 24Vdc power supply on which a serial transmission signal using MD2 protocol is modulated. If an alarm is detected an optical signalization (red LED) on the Interface Box housing flashes.

Microdata Due specifications:

Technical Specification: ST36605 rev. B
Datasheet: D35545 rev. B
Software description: SDD36634 rev. 0
Risk Assessment: D36691 rev. 0

Test Reports:

BRE GLOBAL Ltd Test Report: n. TE-P103830-1001 rev. 02

(Technical evaluation of the Microdata Due S.r.l. MD-9908 and MD-9907 Analogue Addressable Heat Detectors with Short Circuit isolator to EN 54-5: (2017) incl. A1 (2018) and EN 54-17:2005 incl. AC (2007)

TesLab n. 166117E-d (05/09/2016); (RINA Rules – Pt C, Ch 3, Sec 6)

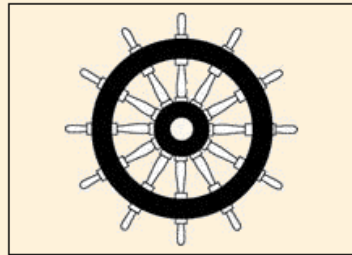
TesLab n. 17B302E-b (EMC _ EN60092-504: 2016)

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



ATTACHMENT TO
CERTIFICATE N. MED070321CS002

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

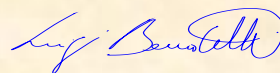
“WHEELMARK FORMAT”

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.



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