

EU TYPE-EXAMINATION CERTIFICATE

1. EU type-examination Certificate (Module B)

2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)



3. EU type examination certificate Nr **ITS16ATEX18439X R.2**

4. **Product:** Flame Tracker Dry 325 (FTD 325)

5. **Manufacturer:** Reuter-Stokes, LLC

Applicant: Reuter-Stokes, LLC

6. **Address:** 8499 Darrow Road
Twinsburg, OH, 44087
USA

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Twinsburg, OH, 44087
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7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.
8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.
- The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 102368390CRT-007b, -007c, -007d, -007e, and -007f dated 10 May 2016, 103136471CRT-001e, -001f, -001g and -001h Issue dated 07-26-2017, 105029065DAL-002 dated 2022-05-26 and 105603871DAL-004 dated 2024-01-17.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN IEC 60079-0:2018 and EN 60079-11: 2012 except in respect of those requirements referred to at item 16 of the Schedule.
10. If the sign X is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.
11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
12. The marking of the product shall include the following:



II 1 G
Ex ia IIB T1, T2, T3 Ga
Refer Description of Equipment for ambient temperature

29 February 2024

Certificate issue date



Todd L. Relyea
Certification Officer
Intertek Italia S.p.A. (NB 2575)



PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This certificate has been issued by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Intertek Italia S.p.A. Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy

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13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The Flame Tracker Dry 325 (FTD 325) is used to detect a flame/combustion optically. The product senses the UV light given off by the flame and produces a 4-20mA signal in response to the flame. The product has a sealed, argon filled metal enclosure.

For RS-FS-9010, a threaded electrical connector for connection to a HOT END cable assembly that has the glass lens and photodiode only is mounted on combustion chamber, while the circuit is present on other side in relative cool ambient, hence called as COOL END. The circuit board is evaluated with through mount components as per schematic under controlled drawing no. FS-9004-20S-CERT and surface mount board as per schematic under controlled drawing no. FS-9004-60S-CERT.

For RS-FS-9010-03-XXX, both separate parts HOT and COOL ends are brazed and welded at connections to form one complete assembly.

The inductance is entirely due to the interconnect cable that carries the 4-20 mA current. There is no inductance in the sensor itself. As such the mixed circuit conditions do NOT apply when calculating the IS barrier. 100% of entity parameters can be used.

Model Similarity:

RS-FS-9010-03-XXX

XXX can be 25X, XXX represents the different gains

Ambient Temperature

COOL ENDS:

Cool End RS-FS-9010-03-XXX - Ambient Range: -51°C to +150°C, T3

HOT ENDS:

RS-FS-9010-03-XXX - Ambient Range: -51°C to +190°C Temperature Code: T3.

RS-FS-9010-03-XXX - Ambient Range: -51°C to +285°C Temperature Code: T2.

RS-FS-9010-03-XXX - Ambient Range: -51°C to +325°C Temperature Code: T1.

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.



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14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
*CERTIFICATION MARKING - CB	FS-9010-24-CB	C	11/08/2023
*QUICK START MANUAL	FS-9010QSM-CERT	A	July 2023
SCH, FLAME SENSOR DIV 1	FS-9004-20S-CERT	A	02/08/2022
SCH, SMT FLAME SENSOR	FS-9004-60S-CERT	A	02/08/2022
REFS INTERCONNECT CABLE	RS-E2-0485-CERT	NC	10-24-2014
PCB FTD 325 DIV1	FS-9009-29B-CERT	A	05/16/2022
SCH, SMT FLAME SENSOR	FS-9010-60S-CERT	A	02/17/2022
*CERT, FLAME SENSOR PCB	FS-9010-60B-CERT	B	07/12/2023
FLAME TRACKER DRY HOT/COOL ASSEMBLY	FS-9009-03-CERT	A	06-29-2021

*Note: An * is included before the title of documents that are new or revised.*

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

15. SPECIFIC CONDITIONS OF USE

Equipment is marked with the following ambient temperature ranges:

COOL END Marking for RS-FS-9010-03-XXX:

-51°C to 150°C Temperature Code: T3

HOT END Marking for RS-FS-9010-03-XXX:

-51°C to 325°C Temperature Code: T1

-51°C to 285°C Temperature Code: T2

-51°C to 190°C Temperature Code: T3

16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 102368390CRT-007b, -007c, -007d, -007e, and -007f dated 10 May 2016, 103136471CRT-001e, -001f, -001g and -001h Issue dated 07-20-2017, 105029065DAL-002 dated 2022-05-26 and 105603871DAL-004 dated 2024-01-17.



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17. ROUTINE (FACTORY) TESTS

None

18. DETAIL OF CERTIFICATE CHANGES

R.1 (G105029065)

- Updated standard EN 60079-0: 2012 to EN IEC 60079-0: 2018
- Added following text in General product information section: The inductance is entirely due to the cable, there is no inductance in the sensor itself. As such the mixed circuit conditions do NOT apply when calculating the IS barrier. 100% of entity parameters can be used
- Updated drawings:
 - FS-9010-24-CB from "Rev A Date 03-02-2016" to Rev B Date 05-24-2022"
 - From "Title: QUICK START GUIDE MODEL RS-FS-9010-XX, Drawing no. FS-9010QSM, Rev B Date 30 June 2017" to "Title: QUICK START GUIDE, Drawing no. FS-9010QSM-CERT, Rev -- Date 05/24/2022"
 - Deleted drawing RS-E2-0485-CERT Rev NC Date 10-24-2014
 - Deleted drawing FS-9008-02-CERT Rev – Date 12-15-2014
 - Deleted drawing FS-9008-01-CERT Rev A Date 12-18-2014
 - FS-9004-20S-CERT from " Rev NC Date 05/20/2015" to "Rev A Date 02/08/2022"
 - FS-9004-60S-CERT from "Rev NC Date 05/09/2016" to " Rev A Date 02/08/2022"
 - Added drawing FS-9004-20B-CERT Rev A Date 03/02/2022
 - FS-9009-29B-CERT from " Rev NC Date 05-20-2015" to " Rev A Date 05/16/2022"
 - FS-9010-60B-CERT from " Rev NC Date 07-10-2017" to " Rev A Date 05/16/2022"
 - FS-9010-60S-CERT from " Rev NC Date 07-10-2017" to " Rev A Date 02/17/2022"
 - FS-9009-03-CERT from "Rev – Date 07-19-2017" to "Rev A Date 06-29-2021"

R.2 (G105603871)

- Added Trademark
- Updated Ingress Protection from IP20 to IP54
- Updated Certificate number from 'ITS16ATEX18439' to 'ITS16ATEX18439X' to add Special Condition of use "X"
- Removed model RS-FS-9010-01, RS-FS-9010-02
- Removed below texts in Description of Product:
 - Cold End RS-FS-9010-02 - Ambient Range: -51°C to +150°C, T3
 - RS-FS-9010-01 - Ambient Range: -51°C to +190°C Temperature Code: T3.
 - RS-FS-9010-01 - Ambient Range: -51°C to +285°C Temperature Code: T2.
 - RS-FS-9010-01 - Ambient Range: -51°C to +325°C Temperature Code: T1
- Added below special conditions of use:
 - Equipment is marked with the following ambient temperature ranges:
 - COOL END Marking for RS-FS-9010-03-XXX:
 - 51°C to 150°C Temperature Code: T3
 - HOT END Marking for RS-FS-9010-03-XXX:
 - 51°C to 325°C Temperature Code: T1
 - 51°C to 285°C Temperature Code: T2
 - 51°C to 190°C Temperature Code: T3
- Updated drawing FS-9010-24-CB from "Rev B Date 05-24-2022" to " Rev C Date 11/08/2023"



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- Updated drawing FS-9010-60B-CERT from “Rev A Date 05/16/2022” to “Rev B Date 07/12/2023”
- Updated drawing FS-9010QSM-CERT from “Title: QUICK START GUIDE, Rev – Date 05/24/2022” to “Title: QUICK START MANUAL, Rev A Date July 2023”
- Due to removal of models model RS-FS-9010-01, RS-FS-9010-02, below drawings are removed:
 - Title: FLAME TRACKER DRY COLD END, Drawing#: FS-9009-02-CERT, Rev level: A, Rev Date: 12-12-2014
 - Title: FLAME TRACKER DRY HOT END ASM, Drawing#: FS-9009-01-CERT, Rev Level: B, Rev Date: 02/02/2016
 - Title: PCB FLAME SENSOR DIV 1, Drawing#: FS-9004-20B-CERT, Rev LEVEL: A, Rev Date: 03/02/2022
- Updated Model/Type reference from “RS-FS-9010-03” to “RS-FS-9010-03-XXX” and replace “RS-FS-9010-03” to “RS-FS-9010-03-XXX” in entire report
- Replace Model “Flame Tracker” with “Flame Tracker Dry 325 (FTD 325)” throughout the document
- Replace “Cold End” to “Cool End” throughout the document
- In Product Description section:
 - Removed “Electrically both COLD and HOT end used in RS-FS-9010-03 are identical to RS-FS-9010 COLD and HOT End.”
 - Updated text from “The inductance is entirely due to the cable, there is no inductance in the sensor itself.” to “The inductance is entirely due to the interconnect cable that carries the 4-20 mA current. There is no inductance in the sensor itself.”
 - Added Model Similarity