

# TYPE-EXAMINATION CERTIFICATE

1. Type-examination Certificate (Module A)
2. Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)



3. Type examination certificate Nr **ITS16ATEX48406X R.1**

4. **Product:** Flame Tracker™ Dry (RS-FS-9009-01 Hot End, RS-FS-9009-02 Cold End, RS-FS-9009-03 Single Unit Assembly)

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

**Applicant:** Reuter-Stokes, LLC

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

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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., 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 Ref: 102368390CRT-005a, -005b, 005c, -005d, -005e and -005f Issue dated 12 May 2016.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018 and EN 60079-7:2015 +A1:2018 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 Special Conditions for Safe Use specified in the schedule to this certificate.
11. This 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 3 G

Ex ec IIC T3, T2, T1 Gc

COLD ENDS:

RS-FS-9009-02 - Ambient Range: -51°C to 150°C, T3

RS-FS-9009-03 - Ambient Range: -51°C to 150°C, T3

HOT ENDS:

RS-FS-9009-01 - Ambient Range: -51°C to 190°C, T3

RS-FS-9009-01 - Ambient Range: -51°C to 285°C, T2

RS-FS-9009-01 - Ambient Range: -51°C to 325°C, T1

RS-FS-9009-03 - Ambient Range: -51°C to 190°C, T3

RS-FS-9009-03 - Ambient Range: -51°C to 285°C, T2

RS-FS-9009-03 - Ambient Range: -51°C to 325°C, T1

IP54

05 October 2021

**Certificate issue date**



**Todd L. Relyea**

Certification Officer  
Intertek Italia S.p.A.



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



## SCHEDULE

TYPE EXAMINATION CERTIFICATE NUMBER: ITS16ATEX48406X R.1

### 13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The Flame Trackers are used to detect a flame/combustion optically. The unit senses the UV light given off by the flame and produces a 4-20 mA signal in response to the flame. The Unit has through hole and surface mounted components. RS-FS-9009(-01 and 02) has one option two parts to the electrical unit. This device consists of HOTEND and COLD END. Other option for RS-FS-9009-(03) is an assembly with both HOTEND and COLD END welded and brazed throughout assembly with ambient on each end as mentioned below.

COLD END:

RS-FS-9009-02 - Ambient Range: -51°C to 150°C, T3

RS-FS-9009-03 - Ambient Range: -51°C to 150°C, T3

HOT END:

RS-FS-9009-01 - Ambient Range: -51°C to 190°C, T3

RS-FS-9009-01 - Ambient Range: -51°C to 285°C, T2

RS-FS-9009-01 - Ambient Range: -51°C to 325°C, T1

RS-FS-9009-03 - Ambient Range: -51°C to 190°C, T3

RS-FS-9009-03 - Ambient Range: -51°C to 285°C, T2

RS-FS-9009-03 - Ambient Range: -51°C to 325°C, T1

### 14. DRAWINGS AND DOCUMENTS

TITLE	DOCUMENT Nr	LEVEL	DATE
SCH, FLAME SENSOR	FS-9001-20S-CERT	NC	09/05/2014
SCH, SMT FLAME SENSOR	FS-9001-60S-CERT	A	05/09/2016
SCH, SMT FLAME SENSOR	FS-9009-60S-CERT	NC	07/10/2017
FLAME TRACKER HOT END ASM	FS-9009-01-CERT	B	02/02/2016
FLAME TRACKER DRY COLD END	FS-9009-02-CERT	A	12/12/2014
FLAME TRACKER DRY HOT/COOL ASSEMBLY	FS-9009-03-CERT	A	06/29/2021
FLAME SENSOR INTERCONNECTING CABLE	RS-E2-0285-CERT	NC	04/07/2014
REFS INTERCONNECT CABLE	RS-E2-0485-CERT	NC	10/24/2014
FLAME TRACKER™ (4-20mA) QUICK START GUIDE - MODEL RS-FS-9009	FS-9009QSM	D	04/30/2021
CERTIFICATION MARKING-CB	FS-9009-54-CB	C	04/27/2021

*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.



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### 15. SPECIAL CONDITIONS FOR SAFE USE

- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.

### 16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 104619750DAL-005 dated 07.20.2021.

### 17. ROUTINE (FACTORY) TESTS

- Equipment shall withstand without breakdown a routine dielectric strength test at 500 V r.m.s. for 60 seconds carried out in accordance with clause 6.1. of EN 60079-7:2015 +A1:2018.

### 18. DETAIL OF CERTIFICATE CHANGES R.1 (27 July 2021)

- Updated the protection type from “Ex nA” to “Ex ec” – Replaced standard EN 60079-15:2010 with EN 60079-7:2015 +A1:2018.
- Updated standard from EN 60079-0:2012 + A11 to EN IEC 60079-0:2018.