

1 TYPE EXAMINATION CERTIFICATE

2 Intrinsically Safe System Intended for use in Potentially Explosive Atmospheres

3 Type Examination Certificate Number: Baseefa11Y0222 Issue 2

4 System: TraceTek-Rosemount Wireless Leak Detection System

5 Certificate Holder: nVent Thermal LLC

6 Address: 899 Broadway Street, CA, 94063-3104, USA

7 This system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa certifies that this system has been found to comply with the following standards

EN 60079-25: 2010

9 The examination and test results are recorded in confidential Report No's. – see certificate history.

10 If the sign "X" is placed after the certificate number, it indicates that the system is subject to special conditions of safe use specified in the schedule to this certificate.

11 This TYPE EXAMINATION CERTIFICATE relates only to the design of the specified intrinsically safe system and not to specific items of equipment therein. It is the responsibility of the system certificate holder to supply the relevant documentation to the installer of the intrinsically safe electrical system referred to in this certificate.

The installer has the responsibility to ensure that the system conforms to the specification laid down in the Schedule to this certificate and has satisfied routine verifications and tests specified therein.

12 The marking of the system shall include the following :

Ex ia IIC T4

Baseefa Customer Reference No. 0865

Project File No. 17/0865

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R S SINCLAIR
TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

M POWNEY
Certification
Manager

13 Schedule

14 Certificate Number Baseefa11Y0222 – Issue 2

15 System Description

The TraceTek – Rosemount Wireless Leak Detection System is designed to detect the presence of hydrocarbons or organic solvents that may be leaking from a storage vessel or pipe. If a leak is detected an RF signal is sent to receiver equipment located in the safe area so that the appropriate action can be taken.

The system consists of a Rosemount model 702 wireless Hydrocarbon sensor (Baseefa07ATEX0239) and up to 3 TraceTek TT-FFS Fast Fuel Sensors (Baseefa11ATEX0221X), 500ft (152m) of TT-5000 Hydrocarbon Sensing Cable or 500ft (152m) of TT-5001 Organic Solvent Sensing Cable (located in the Hazardous area). In the event of a leak the Hazardous area equipment will relay an RF signal to equipment in the safe area.

1. Apparatus that may be installed in a Non Hazardous Area (Safe Area.)

1.1 Unspecified Wireless Receiver/Transceiver.

2. Apparatus that may be installed in a Hazardous Area

2.1 Up to 3 TraceTek TT-FFS Discrete Fuel Sensors (Baseefa11ATEX0221X) or alternatively up to 500ft (152m) of TraceTek TT-5000 or TT-5001 Sensing cable.

3. Permissible Interconnecting Cables

3.1 The capacitance and either the inductance or the inductance to resistance ratio (L/R) of the hazardous area cables must not exceed the following values:-

C μF	L mH	OR	L/R Ratio μH/Ω
8.48	4.1		198

3.2 Wiring to terminals of the safe area apparatus may be achieved by separate cables or by separate circuits within a Type A or Type B multicore cable (as defined in clause 9 of EN 60079-25:2010) subject to the following:-

- a. The circuit to be individually screened when used within a Type A multicore cable.
- b. The peak voltage of any other circuit within a Type B multicore cable must not exceed 60V.

16 Report Number

See certificate history.

17 Specific Conditions of Use

None.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

New drawings submitted for this issue of certificate.

Number	Sheet	Issue	Date	Description
1027-0065	1 of 1	C	28-FEB-2018	TraceTek/Rosemount Wireless Leak Detection System Approval Label

This drawing is common to and held with IECEx BAS 11.0112.

Current drawings also associated with this certificate.

Number	Sheet	Issue	Date	Description
1027-0060	1 of 1	B	7/31/14	TraceTek/Rosemount Wireless Leak Detection System Control Drawing

This drawing is common to and held with IECEx BAS 11.0112.

20 Certificate History

Certificate No.	Date	Comments
Baseefa11Y0222	21 May 2012	The release of the prime certificate. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR12.0090/00
Baseefa11Y0222 Issue 1	20 November 2014	To permit minor drawing changes not affecting the intrinsic safety of the system. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR14.0265/00
Baseefa11Y0222 Issue 2	17 January 2019	To confirm the certificate is now held in the name of nVent Thermal LLC. To update the product marking label to show the name of nVent Thermal LLC. SGS Baseefa certification report GB/BAS/ExTR18.0123/00 refers.
For drawings applicable to each issue, see original of that issue.		