

TYPE EXAMINATION CERTIFICATE



Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- [3] Type Examination Certificate Number: **UL 22 ATEX 2706X Rev. 1**
- [4] Product: **Heat Tracing Remote Monitoring Modules**
- [5] Manufacturer: **nVent Thermal LLC**
- [6] Address: **899 Broadway St., Redwood City, CA 94063 USA**
- [7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.
- The examination and test results are recorded in confidential report no. **US/UL/ExTR22.0017/01**.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN IEC 60079-0:2018** **EN IEC 60079-7:2015/A1:2018**
- except in respect of those requirements listed at item 18 of the Schedule.
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.
- [12] The marking of the product shall include the following:

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Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2022-08-11
Re-issued: 2023-01-17

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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Schedule

TYPE EXAMINATION CERTIFICATE No.

UL 22 ATEX 2706X Rev. 1

[13]

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Description of Product:

The Monitoring Modules RMM3 and RMM3-24DC are part of the control and monitoring system. The RMM3 and RMM3-24DC accept inputs from up to 8 RTDs (3 wire Pt 100 temperature sensors) measuring pipe or ambient temperature in a trace heating system.

Model and RMM3 is AC module and RMM3-24DC is DC module. The model RMM3-24DC is same as RMM3 in terms of DC circuit. Only two capacitors, C17 and C18, each 470µF, are left out in power supply of and RMM3-24DC, as they are not needed.

Temperature range:

The ambient temperature range is -40°C to 60°C.

Electrical data

RMM3 Supply voltage:

115/230 Vac, jumper selectable, 50/60 Hz, 2.5VA

RMM3-24VDC supply voltage:

24 Vdc, 85mA, 2W

Routine tests:

None

[16]

Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

[17]

Special Conditions of Use:

- The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1.
- The equipment shall be installed in an enclosure with tool removable door or cover that provides a degree of protection not less than IP 54 in accordance with EN IEC 60079-7.
- 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.

[18]

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.



The trademark

will be used as the company identifier on the marking label.