

**United States of America** 

## IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No .:	IECEx UL 22.0015X	Page 1 of 4	Certificate history:
Status:	Current	Issue No: 1	Issue 0 (2022-08-11)
Date of Issue:	2023-01-17		
Applicant:	nVent Thermal LLC 899 Broadway St. Redwood City, CA 94063 United States of America		
Equipment:	Heat Tracing Remote Monitoring Modules, Models RMM3, RMM3-24VDC.		
Optional accessory:			
Type of Protection:	Increased Safety "ec"		
Marking:	Ex ec IIC T5 Gc		
	-40 °C $\leq$ T <sub>amb</sub> $\leq$ 60 °C		
Approved for issue c Certification Body:	n behalf of the IECEx	Katy A. Holdredge	
Position:		Senior Staff Engineer	
Signature: (for printed version)			
Date: (for printed version)			
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<ol> <li>This certificate and a</li> <li>This certificate is no</li> <li>The Status and auth</li> </ol>	schedule may only be reproduced in full. transferable and remains the property of the issuing bo enticity of this certificate may be verified by visiting www	dy. <u>Liecex.com</u> or use of this QR Code.	
Certificate issued	l by:		
UL LLC	-		
333 Pfingsten R Northbrook IL 6	oad 0062-2096		Solutions



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Date of issue:	2023-01-17	Issue No: 1
Manufacturer:	<b>nVent Thermal LLC</b> 899 Broadway St. Redwood City, CA 94063	
Manufacturing locations:	United States of America <b>nVent Thermal LLC</b> 899 Broadway St. Redwood City, CA 94063 United States of America	
	United States of America	

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

#### STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### **TEST & ASSESSMENT REPORTS:**

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

US/UL/ExTR22.0017/00

US/UL/ExTR22.0017/01

Quality Assessment Report:

GB/BAS/QAR06.0030/09



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#### EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

#### Please see Annex for additional information.

#### SPECIFIC CONDITIONS OF USE: YES as shown below:

- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 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 IEC 60079-7.
- Transient protection shall be provided that is set at a level not exceeding 140% of the peat rated voltage value at the supply terminals to the equipment.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

2023-01-17

Issue 1: Marking labels and installation instructions were updated. In addition, fuse rating for RMM3 is updated to 50mA.

Annex:

Annex to IECEx UL 22.0015X Issue 1.pdf



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### PARAMETERS RELATING TO THE SAFETY

RMM3 Supply voltage: 115/230 Vac, jumper selectable, 50/60 Hz, 2.5VA RMM3-24VDC supply voltage: 24 Vdc, 85mA, 2W

### MARKING

Marking has to be readable and indelible; it has to include the following indications:







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Codierung der Bedruckung coding of the label : DDD: 3-stellige Angabe des Prüftages DDD YY 3-digits day when electrical test was done YY: 2-stellige Angabe des Prüfjahres 10,0 mi SSSS CC 2-digits year when electrical test was done SSSS: 4-stellige Angabe der Seriennummer 4-digits serial number 2-stellige Indentnummer des Prüfcomputers 2-digits ID of the testcomputer CC: 17,8 mm