



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx LCI 08.0036X issue No.:4
Status: **Current**
Date of Issue: **2013-04-05** Page 1 of 4

Certificate history:
Issue No. 4 (2013-4-5)
Issue No. 3 (2011-5-9)
Issue No. 2 (2010-8-20)
Issue No. 1 (2008-10-29)
Issue No. 0 (2008-8-7)

Applicant: **Pentair Thermal Management**
Research Park Haasrode – Zone 2
Romeinse straat 14
B-3001 Leuven
Belgium

Electrical Apparatus: **Thermostat**
Optional accessory:

Type of Protection: **d, t**

Marking: PENTAIR
Address: ...
Type: RAYSTAT-EX-02
Serial number: ...
Year of construction: ...
Ex d IIC T6 Gb
Ex tb IIIC T80°C Db IP66
IECEx LCI 08.0036X
WARNING – DO NOT OPEN WHEN ENERGIZED
Only use copper conductors suitable for 90°C

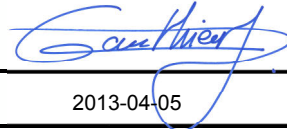
Approved for issue on behalf of the IECEx
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:
(for printed version)


2013-04-05

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France

Documents relative to LCIE certification activities (Certificates, QARs, ExTRs) can be registered under the references "LCI" or "LCIE".





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Manufacturer: **BARKSDALE Inc.**
3211 Fruitland Avenue
P.O. Box 58843
Los Angeles CA 90058-0843
United States of America

Additional Manufacturing location
(s):

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 electrical apparatus 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 : 2007-10 Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 5
IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6
IEC 60079-31 : 2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition: 1

*This Certificate **does not** indicate compliance with electrical 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 Report:

FR/LCI/ExTR08.0042/00
FR/LCI/ExTR08.0042/03

FR/LCI/ExTR08.0042/01
FR/LCI/ExTR08.0042/04

FR/LCI/ExTR08.0042/02

Quality Assessment Report:

FR/LCI/QAR08.0004/00
FR/LCI/QAR08.0004/03

FR/LCI/QAR08.0004/01
GB/BAS/QAR07.0053/03

FR/LCI/QAR08.0004/02



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Explosion-proof thermostat with an aluminium alloy enclosure, whose internal free volume is approximately 370 cm³.

Specific parameters of the mode(s) of protection concerned:

- General characteristics :

- 6V, 12V, 24V, 125V, or 250V (DC)
- 125V, 250V, 480V or 600V (AC)

CONDITIONS OF CERTIFICATION: YES as shown below:

Ta = -40°C to +60°C



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 04 :

- Normative update according to IEC 60079-0, Ed 5 ; IEC 60079-1, Ed 6 and IEC 60079-31, Ed 1 standards.
- Name change and address of the applicant "TYCO THERMAL CONTROLS, 307 Constitution Dr. Mento Park, CA 94025 USA" becomes "Pentair Thermal Management, Research Park Haasrode – Zone 2 Romeinse straat 14 B-3001 Leuven Belgium".