



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 LCIE 14.0005X issue No.:0 Certificate history:.....

Status: **Current**

Date of Issue: **2015-02-23** Page 1 of 3

Applicant: **BARTEC GmbH**
Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany

Electrical Apparatus: **Temperature controller and limiter DTW/DTB**
Optional accessory: Type : 27-6C**-****/****

Type of Protection: **Explosion proof 'd', protection by enclosure 'tb'**

Marking: **BARTEC**
Version without relay :
Ex d IIC T6 Gb
Ex tb IIIC T80°C Db IP66
Version with relay :
Ex d IIC T4 Gb
Ex tb IIIC T130°C Db IP66
IECEx LCIE 14.0005 X
(Full marking is available in attachment)

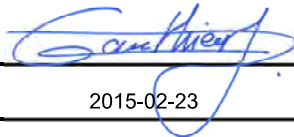
Approved for issue on behalf of the IECEx
Certification Body:

Certification Officer

Position:

Julien Gauthier

Signature:
(for printed version)



2015-02-23

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: **BARTEC GmbH**
Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany

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/LCIE/ExTR14.0008/00](#)

Quality Assessment Report:
[DE/TUN/QAR06.0017/05](#)



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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 for the version without relay and approximately 690 cm³ for the version with relay.

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

- General characteristics :

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

- Relay characteristics :

- Coil : 120 VAC, 208 VAC, 240 VAC, 277 VAC.
- Contacts : 30A, 120 VAC or 277 VAC.

CONDITIONS OF CERTIFICATION: YES as shown below:

Ambient temperature defined as follow :

Ta = -40°C up to +60°C



IECEX LCIE 14.0005 X issue 00 Attachment n°01



Marking

BARTEC

Address : ...

Type : 27-6C**_****/****

Serial number : ...

Year of construction : ...

Version without relay :

Ex d IIC T6 Gb

Ex tb IIIC T80°C Db IP66

Version with relay :

Ex d IIC T4 Gb

Ex tb IIIC T130°C Db IP66

IECEX LCIE 14.0005 X

WARNING – DO NOT OPEN WHEN ENERGIZED.

Only use copper conductors suitable for 90°C



IECEX LCIE 14.0005 X issue 00 Attachment n°01



Type detail

27	-	6	C	.	.	-	/
A		B	C	D	E		F	G	H	I		J	K	L	M

Number	Code for :	Var : Description
A	General code	27 General code Heating Technology
B	Controllers and monitoring systems	6 Controllers and monitoring systems
C	Measuring System	C Mechanical Ex d
D	Function	A Temperature controller TR-DTW B Temperature controller for environment TRA C Temperature limiter TB-DTB
E	Conduit	1 1xM25x1.5mm female, EU version 2 2xM25x1.5mm female, EU version 5 1xNPTx3/4" mm female, US version 6 2xNPTx3/4" mm female, US version
F	Electrical rating	0 AC switch 15A (limiter US version) 1 AC switch 16A (limiter EU version) 2 AC switch 22A (controller) 6 3-phase Replay 22A (240VAC relay coil)
G	Enclosure Type	4 Aluminum molding
H	Enclosure dimension	1 167x114x102 (single device) 6 167x140x152 (single device with relay)
I	Adjustable temperature range	1 -4°C...+163°C 2 -9°C... +60°C
J	Sensor material	2 Niro Wst, NR.14571 Stainless steel
K-M	Customer special marking	