



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 LCIE 13.0050X**

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Certificate history:

Status: **Current**

Issue No: 5

Issue 4 (2024-02-07)

Issue 3 (2023-12-17)

Issue 2 (2020-08-28)

Issue 1 (2015-02-25)

Issue 0 (2013-10-28)

Date of Issue: 2026-01-30

Applicant: **Ashcroft Instruments GmbH**
Max-Planck-Straße 1-9
Alsdorf 52477
Germany

Equipment: **Temperature Probes - Type: SXX**

Optional accessory:

Type of Protection: **Flameproof enclosure "d"**

Marking: Ex db IIC T6 or T5 Gb

(see Annex for full marking)

Approved for issue on behalf of the IECEx
Certification Body:

Jérôme REYSSON

Position:

Certification Officer

Signature:
(for printed version)



Date:
(for printed version)

2026-01-30

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.
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Certificate issued by:

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





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Manufacturer: **Ashcroft Instruments GmbH**
Max-Planck-Straße 1-9
Alsdorf 52477
Germany

Manufacturing locations: **Ashcroft Instruments GmbH**
Max-Planck-Straße 1-9
Alsdorf 52477
Germany

Ashcroft Querétaro, S. de R.L. de C.V.
Carretera 500 a Chichimequillas KM 5+500
Calle 1
No. 50
El Marqués Querétaro 76240
Mexico

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](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

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:

[FR/LCIE/ExTR23.0055/00](#)

[FR/LCIE/ExTR23.0069/00](#)

[FR/LCIE/ExTR26.0004/00](#)

Quality Assessment Reports:

[GB/CSAE/QAR24.0001/02](#)

[US/FME/QAR25.0010/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The equipment consists of a sensor cable jacketed, with a connection head enclosure certified Ex db IIC Gb. Connection head enclosure is made of aluminium alloy or stainless steel. Temperature classification is considered only for connection head enclosure.

Range details:

Type: SXX (XX= 10, 50, 70).

The Ex Components and Ex Equipment already certified and used are detailed in the Annex to this certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:

It is the responsibility of the manufacturer or end user to ensure that external source of heating or cooling (if present) does not impact the temperature classification of the equipment.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 0:

Initial issue according to IEC 60079-0:2011 (Ed. 6.0), IEC 60079-1:2007 (Ed. 6.0) and IEC 60079-11:2011 (Ed. 6.0) standards.

Issue 1:

- Addition of various types of certified connection head.
- Added insert with a diameter of 6 mm, 6,35 mm and 8 mm.
- Modification of the ambient operating temperature (-55 °C to +60 °C) for the connection head.
- Remove of the version d[ia/ib].

Issue 2:

- Addition of flame barrier variant at the head exit for insert diameter 6/6,35/8/9,53/12,7 mm.
- Addition of the possibility to use the connection head TTE 1xx manufactured by FPL (IECEX CES 14.0005U).
- Modification of the maximum ambient operating temperature from +60 °C to +75 °C only when using the heads TTE1xx manufactured by FPL (IECEX CES 14.0005U) and GUB manufactured by MAM IECEX INS 11.0019U).

Issue 3:

Clarification of the Ex components and Ex Equipment used.

Issue 4:

Change of the Applicant's/Manufacturer's name and address: From "Rüeger SA" to "Ashcroft Instruments GmbH".

Issue 5:

- Update of marking drawing.
- Update of Instructions.
- Addition of a manufacturing location : Ashcroft Querétaro, S. de R.L. de C.V.
- Update of QAR.

Annex:

[Annex 01 to Certificate IECEX LCIE 13.0050X issue 5.pdf](#)



Annex 01 to Certificate of Conformity IECEX LCIE 13.0050X issue 5



FULL EQUIPMENT DESCRIPTION

The equipment consists of a sensor cable jacketed, with a connection head enclosure certified Ex db IIC Gb. Connection head enclosure is made of aluminum alloy or stainless steel. Temperature classification is considered only for connection head enclosure.

The following connection heads certified as Ex Components can be used:

Component	Manufacturer	Type	IECEX CoC	Applied standards
Empty enclosures	F.P.L. Elettrocera mica Industriale S.r.l.	TTE 200, 250, 270, 280, 300, 350, 370, 380, 600, 680, 700, 780	IECEX CES 14.0006U, Issue No. 1	IEC 60079-0:2017 Ed. 7.0 IEC 60079-1:2014 Ed. 7.0
Empty enclosures	F.P.L. Elettrocera mica Industriale S.r.l.	TTE 100, 160	IECEX CES 14.0005U, Issue No. 1	IEC 60079-0:2017 Ed. 7.0 IEC 60079-1:2014 Ed. 7.0
Connection head	Limatherm Components Sp. z o.o.	XD-A**	IECEX FTZU 14.0003U, Issue No. 4	IEC 60079-0:2017 Ed. 7.0 IEC 60079-1:2014 Ed. 7.0

The following Ex Equipment can also be integrated with the temperature probe:

Designation of product	Manufacturer	Type	IECEX CoC
Enclosure	OFFICINE MECCANICHE MAM	GUB...	IECEX INE 11.0018X
Temperature Transmitter	ABB Automation Products GmbH	TTF200, TTF300	IECEX PTB 12.0039X
Temperature Transmitter	Rosemount Inc.	644, 3144P, 148 and 248	IECEX DEK 19.0041X
Field mounted HART Temperature Transmitter	PR electronics A/S	7501	IECEX DEK 15.0039X
Temperature Transmitter	SIEMENS AG	SITRANS TF 320 and TF 420	IECEX DEK 19.0070X
Temperature Transmitter	Yokogawa Electric Corporation	YTA610 and YTA710	IECEX KEM 07.0044X
Temperature Transmitter	Honeywell, Inc.	STT750 and STT850	IECEX SIR 14.0020X

RANGE DETAILS

Type: SXX (XX = 10, 50, 70)

RATINGS

Voltage supply:

Models without transmitter: up to 30 V

Models with transmitter: according to the electrical parameters of the used transmitter.



Annex 01 to Certificate of Conformity IECEX LCIE 13.0050X issue 5



MARKING



Ashcroft Instruments GmbH or

Address: ...

Type: SXX (completed by the model)

Serial number: ...

Year of construction: ...

Ex db IIC T6 or T5 Gb ⁽¹⁾

IECEX LCIE 13.0050X

-... °C ≤ T_{amb} ≤ +... °C ⁽²⁾

T. Cable: ...⁽¹⁾

WARNING – DO NOT OPEN WHEN ENERGIZED

⁽¹⁾: T6 for of ambient temperature -55 °C to +60 °C. For higher max ambient temperatures see table below:

Temperature class	T6	T6	T5
Process Temperature	400 °C	700 °C	700 °C
Ambient Temperature	-55 °C to +75 °C	-55 °C to +65 °C	-55 °C to +75 °C
Cable Temperature	77 °C	None	77 °C

⁽²⁾: See table below:

Connecting head / Enclosures	Ambient operating temperature range
FPL: TTE1xx	-55 °C to +75 °C
FPL: TTE2xx, TTE3xx, TTE6xx, TTE7xx	-55 °C to +60 °C
MAM: GUB...	-55 °C to +75 °C
LIMATHERM: XD-A**	-50 °C to +60 °C

ROUTINE TESTS

None.