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**

Page 1 of 4

Certificate history:

Issue 3 (2023-12-17)
Issue 2 (2020-08-28)
Issue 1 (2015-02-25)
Issue 0 (2013-10-28)

Status: **Current**

Issue No: 4

Date of Issue: 2024-02-07

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

Equipment: **Temperature probe - Type: S XX**

Optional accessory:

Type of Protection: **Ex db**

Marking: Ex db IIC T6 or T5 Gb

IECEx LCIE 13.0050X

(Refer to attachment for full marking).

Approved for issue on behalf of the IECEx Certification Body: **Julien GAUTHIER**

Position: **Certification Officer**

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.

Certificate issued by:

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

IECEx Certificate of Conformity

Certificate No.: **IECEx LCIE 13.0050X** Page 2 of 4

Date of issue: 2024-02-07 Issue No: 4

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

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

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

Quality Assessment Reports:

GB/CSAE/QAR24.0001/00 GB/SIR/QAR10.0013/10

IECEx Certificate of Conformity

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 are made of aluminium alloy or stainless steel and certified. Temperature classification in this report is considered only for connection head enclosure.

Range details:

Type: S XX

S XX (XX= 10, 50, 70).

The Ex components and equipments already certified and used are indicated in the annex 01 of this certificate (Refer to attachment for more details).

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.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 0:
Initial issue according to IEC 60079-0:2011 (Ed.6.0), IEC 60079-1:2007-04 (Ed.6) and IEC 60079-11:2011 (Ed.6.0) standards.

Issue 1:
- Addition various type of certified connection head.
- Add insert with a diameter of 6mm, 6,35mm and 8mm.
- Modification of the operating ambient temperature (-55°C to +60°C) for the connection head.
- Removing the version d[ia/ib].

Issue 2:
- Addition of flame barrier variant at the head exit for insert diameter 6/6.35/8/9.53/12.7mm.
- Add of the possibility to use the connection head TTE 1xx manufactured by FPL (IECEx CES 14.0005U)
- Modification of the maximum operating ambient 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 equipment used.

Issue 4:
Change of the Applicant's/Manufacturer's name and address: From: **Rüeger SA** to: **Ashcroft Instruments GmbH**.

Annex:

Annex 01 to Certificate IECEx LCIE 13.0050X issue 04.pdf

Annex 01 to Certificate
IECEx LCIE 13.0050X issue 04

FULL EQUIPMENT DESCRIPTION

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

Range details:
Type: S XX
S XX (XX= 10, 50, 70).

The following connection heads certified as **Ex components** can be used:

Component	Manufacturer	Type	IECEx CoC	Applied standards
Empty enclosures	F.P.L. Elettroceramica 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. Elettroceramica 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	Document of reference
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

MARKING

Ashcroft Instruments GmbH. or RÜEGER an ASHCROFT company
Address : …
Type: S XX (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
T Cable	77°C	None	77°C

(2): See table below:

Connecting head / Enclosures	Max Operating ambient 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

RATINGS

Voltage supply:

- models without transmitter: up to 30V
- models with transmitter: according to the electrical parameter of the used transmitter.

ROUTINE TESTS

None.