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 13.0043X**

Page 1 of 4

Certificate history:
Issue 2 (2017-09-22)
Issue 1 (2016-08-25)
Issue 0 (2013-10-15)

Status: **Current**

Issue No: 3

Date of Issue: 2020-07-15

Applicant: **JUMO REGULATION**
7 rue des Drapiers
57075 METZ
France

Equipment: **Temperature Sensor, Type: TXI.03**

Optional accessory:

Type of Protection: **Ex ia**

Marking: Ex ia IIC T1 to T6 (1) Ga or

Ex ia IIIC T…°C (1) Da or

Ex ia IIIC T1 to T6 (1) Ga

Ex ia IIIC T…°C (1) Da

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

Position: **Certification Officer**

Signature: (for printed version)

LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES
S.A.S au capital de 15.745.984 €
RCS Nanterre B 408 363 174
33 avenue du Général Leclerc
F - 92266 FONTENAY AUX ROSES

Date: 2020-07-15

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 13.0043X** Page 2 of 4

Date of issue: 2020-07-15 Issue No: 3

Manufacturer: **JUMO REGULATION**
7 rue des Drapiers
57075 METZ
France

Additional manufacturing locations:

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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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/ExTR13.0038/00 FR/LCIE/ExTR17.0067/00

Quality Assessment Report:

NL/DEK/QAR19.0019/00

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The temperature sensor is a cylindrical shaped, mounted with a cable.
The sensitive element type is resisting (PTXX, CTN, PTN, PTC) or thermocouple.
The sensitive element is a metallic head equipped with cable for connection to an external temperature controller.

SPECIFIC CONDITIONS OF USE: YES as shown below:
- Ambient temperature in use: - 40°C ≤ Tamb ≤ Ta max (Ta max: see temperature table).

- The apparatus shall only be connected to intrinsically safe certified equipment. This combination must be compatible as regard intrinsic safety rules of IEC 60079-25 standard (see electrical parameters)

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 01 :
Change of QAR reference (LCIE file #128914-658900).

Issue 02:
Change of Intrinsic Safety Parameters.

Issue 03 :
Change of QAR reference (LCIE file #168014-753097).

Annex:

IECEx_LCIE_13.0043X_003 - annexe.pdf

Annex 01 to Certificate
IECEx LCIE 13.0043X issue 03

FULL EQUIPMENT DESCRIPTION

The temperature sensor is a cylindrical shaped, mounted with a cable.
The sensitive element type is resisting (PTXX, CTN, PTN, PTC) or thermocouple.
The sensitive element is a metallic head equipped with cable for connection to an external temperature controller.

Temperature Ratings

Ta max	Temperature class for gas	Temperature class for dust
80°C	T6	T85°C
95°C	T5	T100°C
130°C	T4	T135°C
195°C	T3	T200°C
290°C	T2	T300°C
400°C	T1	T410°C

Electrical parameters:
U_i: 25V , I_i: 50mA , P_i:125mW , L_i:0 and C_i:0

MARKING

JUMO
Address : …
Type : TXI.03
Serial number : …
Year of construction : …
Ex ia IIC T1 to T6 (1) Ga or
Ex ia IIIC T…°C (1) Da or
Ex ia IIC T1 to T6 (1) Ga
Ex ia IIIC T…°C (1) Da
IECEx LCIE 13.0043X
-40°C ≤ Tamb ≤ Ta_{max}

U_i: 25V , I_i: 50mA , P_i:125mW , L_i:0 and C_i:0

(1) Refer to temperature table

RATINGS

Electrical parameters : U_i: 25V , I_i: 50mA , P_i:125mW , L_i:0 and C_i:0

Temperature Ratings

Ta max	Temperature class for gas	Temperature class for dust
80°C	T6	T85°C
95°C	T5	T100°C
130°C	T4	T135°C
195°C	T3	T200°C
290°C	T2	T300°C
400°C	T1	T410°C

FULL CONDITIONS OF CERTIFICATION (ou FULL SCHEDULE OF LIMITATIONS)

- Ambient temperature in use: - 40°C ≤ Tamb ≤ Ta max (Ta max: see table above).

- The apparatus shall only be connected to intrinsically safe certified equipment. This combination must be compatible as regard intrinsic safety rules of IEC 60079-25 standard (see electrical parameters)

ROUTINE TESTS

None.