



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 13.0023X** issue No.:1
Status: **Current**
Date of Issue: **2015-02-25** Page 1 of 4

Certificate history:
Issue No. 1 (2015-2-25)
Issue No. 0 (2013-7-8)

Applicant: **RUEGER S.A**
Chemin de Mongevon 9
Case postale 98
CH-1023 CRISSIER
Switzerland

Electrical Apparatus: **Temperature probe type S XX**
Optional accessory:

Type of Protection: **ia or ib**

Marking: See attachment N°01 for details of marking
Ex ia IIC T6...T4 Ga, Ex ia IIB T6...T4 Ga
Ex ib IIC T6...T4 Gb, Ex ib IIB T6...T4 Gb
IECEx LCIE 13.0023X

Approved for issue on behalf of the IECEx
Certification Body:

Rémi HANOT

Position:

Certification Officer

Signature:
(for printed version)

Date:

26 FEV. 2015

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".





IECEx Certificate of Conformity

Certificate No.: IECEx LCIE 13.0023X

Date of Issue: 2015-02-25

Issue No.: 1

Page 2 of 4

Manufacturer: **RUEGER SA**
Chemin de Mongevon 9
Case postale 98
CH-1023 CRISSIER
Switzerland

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 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6

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

*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/ExTR13.0022/00](#)

[FR/LCIE/ExTR13.0022/01](#)

Quality Assessment Report:

[FR/LCI/QAR11.0018/03](#)



IECEx Certificate of Conformity

Certificate No.: IECEx LCIE 13.0023X

Date of Issue: 2015-02-25

Issue No.: 1

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description :

The equipment consists of a sensor cable jacketed, with or without a connection head enclosure (minimum degree of protection IP20), terminals with or without temperature transmitter certified Ex ia or ib IIC or IIB integrated inside connection head, an extension cable with terminal block or connector shell. The insert can be mounted in a thermowell that will be fixed to the head of connector.

Type : S XX (XX = 01,10, 20, 21, 22, 30, 31, 40, 41, 50, 60, 61, 62, 70, 80, 81, 82, 83, 95, 96)

Electrical parameters :

See attachment N°01 for details

CONDITIONS OF CERTIFICATION: YES as shown below:

- For equipment constructed with aluminum alloy enclosure : the device must not be submitted to mechanical shock and friction in zone 0
- This equipment must be associated to a certified intrinsic safety material and this combination must be compatible as regards intrinsic safety rules (See electrical parameter)
- Type S95 and S96 must be mounted with certified transmitter.
- Follow special conditions for safe use relevant of certificat and associated instruction manual
- The connection of electrical cable must be performed in an enclosure according to IEC 60079-0 standard (with a minimum protective degree of IP20)
- Range of ambient temperature :
For models without transmitter : -55°C to +60°C
For models S 95 and S96 with transmitter : -55°C to 60°C (minimum and maximum temperature is defined according to concerned certificate for the transmitter used).
- Temperature classification concerns only head connexion. It is the responsibility of the manufacturer or end user to ensure that the external source of heating or cooling (if available) does not impact the temperature classification of the equipment.



IECEx Certificate of Conformity

Certificate No.: IECEx LCIE 13.0023X

Date of Issue: 2015-02-25

Issue No.: 1

Page 4 of 4

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

Issue 1 :

Add models S40, S41, S96.

Add several 4-20mA transmitters certified.

Modification of the operating ambient temperature for the connection head (-55°C to +60°C).



IECEX LCIE 13.0023 X issue 01 Attachment n°01



Marking :

Models without transmitter :

RUEGER SA
 Address : ...
 Type : S XX (Completed by the model)
 Serial number : ...
 Year of manufacturing : ...
 Ex ib IIC T6 or T5 Gb (models with insert diameter 0.5 mm to 1.6 mm)
 Ex ia IIC T6 or T5 Ga (models with insert diameter 2 mm to 12.7 mm)
 IECEX LCIE 13.0023 X
 $U_i \leq 30V, I_i \leq 100mA, P_i \leq 0,75W, L_i \approx 0, C_i \approx 0$

For models with transmitter : S95 or S96

RUEGER SA Address : ...
 Type : S 95 or S96
 Serial number : ...
 Year of manufacturing : ...
 Ex ia IIC T*... Ga (*)
 Ex ia IIB T*... Ga (*)
 Ex ib IIC T* ...Gb (*)
 Ex ib IIB T*... Gb (*)
 IECEX LCIE 13.0023 X
 $U_i \leq \dots, I_i \leq \dots, P_i \leq \dots, L_i \leq \dots, C_i \leq \dots$ (*)
 (*) Adapted according to the certificate of the transmitter used

Certified transmitter can be used :

Type	Certification
ABB	Type TTH 300..., TTH 200..., TTR300..., TTR 200..., TTF 300..., TTF350... : IECEX PTB 09.0014 X
Rosemount	Type 248 : IECEX BAS 07.0086X Type 644 : IECEX BAS 12.0069X

Temperature classification and operating ambient temperature :

Model	Temperature classification	Operating ambient temperature near the connecting head
Sans transmetteur	T6 T5	-55°C to +55°C -55°C to +60°C
Avec transmetteur		
ABB : TTH 300..., TTH 200..., TTR300..., TTR 200..., TTF 300..., TTF350...	Catégorie ia	
	T6	-50°C to +44°C
	T5	-50°C to +56°C
	T4	-50°C to +60°C
	Catégorie ib	
	T6	-50°C to +56°C
	T5	-50°C to +71°C
	T4	-50°C to +60°C
Rosemount : 248	T6	-55°C to +60°C
Rosemount : 644	T6	-55°C to +40°C
	T5	-55°C to +40°C/+50°C
	T4	-55°C to +60°C

This Annex is valid only in combination with certificate IECEX LCIE 13.0023 X issue 01 and may only be reproduced in its entirety and without any change.