



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 IMQ 22.0005X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2023-01-25
Applicant: **RÜEGER S.A.**
Chemin de Mongevon 9
Crissier 1023
Switzerland
Equipment: **Temperature probe (Pressision sensor), Type: Pressision PRE**
Optional accessory:
Type of Protection: **Intrinsically safe**
Marking: **Ex ia IIC T4 Ga**

Approved for issue on behalf of the IECEx
Certification Body:

Mr. Mauro CASARI

Position:

IMQ ExCB Manager

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:

Istituto Italiano del Marchio di Qualità S.p.A
Via Quintiliano 43
20138 Milano
Italy





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Manufacturer: **RÜEGER S.A.**
Chemin de Mongevon 9
Crissier 1023
Switzerland

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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[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 Report:

[IT/IMQ/ExTR22.0005/00](#)

Quality Assessment Report:

[FR/LCI/QAR11.0018/10](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Pressision PRE is an intrinsically safe temperature probe. The Ex equipment is composed by a transmitter connected via a capillary to a cartridge filled with gas. The cartridge represents the measuring element. The transmitter consists of a pressure sensor and electronic printed circuits in a common metal housing. The measuring range (FS) defines the pressure for the use of the transmitter. There is a digital data processing of the pressure signal that converts the gas measurement into an electrical signal and then into the expected temperature value.

Electrical data

Power supply:

$U_i \leq 30 \text{ V}$; $I_i \leq 140 \text{ mA}$; $P_i \leq 780 \text{ mW}$; $C_i = 1 \text{ nF}$; $L_i = 124 \text{ }\mu\text{H}$

RS 485 interface port:

$U_i \leq 12 \text{ V}$; $I_i \leq 12 \text{ mA}$; $P_i \leq 40 \text{ mW}$; $C_i = 1 \text{ nF}$; $L_i = 124 \text{ }\mu\text{H}$

$U_o \leq 14,7 \text{ V}$; $I_o \leq 73,9 \text{ mA}$; $P_o \leq 520 \text{ mW}$

Protection degree: IP20

Rated ambient temperature range: from -40°C to $+80^\circ\text{C}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

Ex equipment cartridge in copper shall not be used in direct contact with acetylene. In this case, cartridge must be in stainless steel or use of immersion sleeve is required

Above referred equipment shall be supplied by associated apparatus certified according to EN 60079-0, EN 60079-11 and EN 60079-26, with the electrical characteristics reported in the cover