



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 EUT 20.0009X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-11-09

Applicant: **Recom Industriale S.r.l.**
Via Pietro Chiesa, 25-27 r.
Genova (GE) I-16149
Italy

Equipment: **Gas Transmitters & Detectors Explorer RTC & RTE**

Optional accessory:

Type of Protection: **Equipment protection by flameproof enclosures "d"**

Marking: **Ex db IIC T6 Gb**
-20 °C ≤ Ta ≤ +50 °C

Approved for issue on behalf of the IECEx
Certification Body:

Dionisio Bucchieri

Position:

Head of IECEx certification body

Signature:
(for printed version)

Date:

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:

Eurofins Product Testing Italy S.r.l.
Via Cuorgnè
n.21 - 10156 Torino
Italy



Product Testing



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Manufacturer: **Recom Industriale S.r.l.**
Via Pietro Chiesa, 25-27 r.
Genova (GE) I-16149
Italy

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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 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 Report:

[IT/EUT/ExTR20.0009/00](#)

Quality Assessment Report:

[IT/EUT/QAR20.0002/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Gas sensors and transmitters type **Explorer RTC & RTE** are equipment designed to detect and transmit the concentration value of flammable or toxic gases in ambient air under atmospheric conditions.

They are composed of a gas detector unit and a flameproof enclosure (covered by separate certificates of component); the gas detector unit is screwed in the enclosure.

The detection unit is able to reveal the gas concentration by means of a breathing element of sintered metal, protecting the sensitive element.

The terminals for electric connections and electronic circuits are installed in the metallic flameproof enclosure.

The data transmission is obtained by means of current loop 4-20 mA or serial RS 485 communication protocol.

The different types of sensing elements and conversion circuits are detailed in the annex of this certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The flameproof joints shall not be repaired.

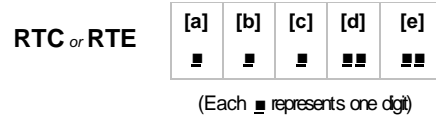
Annex:

[EPT.20.REL.02_55954_0.pdf](#)

Annex to certificate: IECEx EUT 20.0009 X Issue 0

Product variants

The characteristics of Explorer Gas Sensor **RTC & RTE** are codified according to the following schema:



[a]	Gas sensor series:	1	: Explorer	
[b]	Sensitive element type:	1	: MED sensor (MED and Ex applications only for sensitive element types [e] 04, 05 & 06 and flameproof enclosure type [c] 02)	
		2	: ATEX sensor (only for Ex applications)	
[c]	Flameproof enclosure type (electronic board flameproof case):	2	: EL.FiT® GUA-26 flameproof blind enclosure type	
		3	: Limatherm® XD-JB85 flameproof blind enclosure type	
[d]	Electronic board configuration type:	02	: LEL	Only for RTC type
		03	: TOX O ₂	Only for RTE type
[e]	Identification of the sensitive element:	01	: LEL VQ1	Only for RTC type
		02	: LEL VQ21	
		03	: VQ6	
		04	: O ₂	Only for RTE type
		05	: CO	
		06	: H ₂ S	
[e]	Identification of the sensitive element: <i>(Continue)</i>	07	: H ₂	Only for RTE type
		08	: ETO	
		13	: PH ₃	
		16	: HCl	
		18	: HCN	
		20	: THT	
21	: HCOOH			
22	: KE-25			

Rated characteristics:

- Supply voltage up to : 24 V_{dc};
- Supply current up to : 210 mA (for instrument supply)
- Maximum dissipated power: 5 W



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Annex to certificate: **IECEx EUT 20.0009 X Issue 0**

Warning label

WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

Routine tests

None.