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EU-TYPE EXAMINATION CERTIFICATE[2] **Equipment intended for use in potentially explosive atmospheres Directive 2014/34/EU – Annex III**[3] Certificate Number: **EPT 20 ATEX 3861 X** **issue 2**[4] Equipment: **Gas Sensors & Transmitters**
Explorer Gas Point[5] Manufacturer: **Recom Industriale S.r.l.**[6] Address: **Via Pietro Chiesa, 25-27 r. 16149 Genova (GE) - Italia**

[7] This equipment and its accepted variations are specified in the annex to this Certificate.

[8] Eurofins Product Testing Italy S.r.l., Notified Body n. 0477 in accordance with Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council of 26th February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II of the Directive. The examination and test results are recorded in the confidential Report N°EPT.23.REL.02/2213027


[9] Compliance with the essential health and safety requirements is assured through the verification of them and by compliance with the following harmonized standards:

EN IEC 60079-0:2018, EN 60079-1:2014

[10] If the sign "X" is placed after the Certificate number, it indicates that the equipment is subject to the special conditions for safe use specified in the annex to this Certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the specified equipment.

Further requirements of the Directive 2014/34/EU apply to the manufacture and supply of this equipment. These requirements are not object of this Certificate.

[12] The equipment shall include the sign  and the following strings:**II 2G Ex db IIC T4 Gb****-20 °C ≤ Ta ≤ +50 °C**

Place and date of issue:

(DD-MM-YYYY)

Torino, 26-10-2023


Dionisio Bucchieri
Directive ResponsiblePaolo Trisoglio
Managing DirectorPRD N° 119B
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This Certificate has 5 pages and it is reproducible only in its entirety. Conditions of validity are reported below.

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[15] Equipment description

Gas sensors and transmitters type **Explorer Gas Point** 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 two different type of flameproof enclosures (as detailed in the model reference section), covered by a separate certificates of component; the gas detector unit is screwed in the enclosure by a ANSI/ASME B 1.20.1 thread.

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 documents annexed to this certificate.

Model Reference

The characteristics of the apparatus are codified according to the following schema:

Explorer Gas Point

[a]	[b]	[c]	[d]	[e]
■	■	■	■■	■■■

(Each symbol ■ represents one digit)

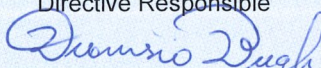
[a]	Gas sensor series:	1	: Explorer
[b]	Sensitive element type:	2	: ATEX sensor (only for Ex applications)
[c]	Flameproof enclosure type (electronic board flameproof case):	2	: Limatherm® XD-lwin flameproof enclosure with window
		3	: Limatherm® XD-l flameproof blind enclosure
		4	: EL.FIT® GUA-26 flameproof blind enclosure
		5	: Limatherm® XD-JB85 flameproof blind enclosure
		6	: Limatherm® XD-JB85win flameproof enclosure with window
[d]	Electronic board configuration type:	03	: Gas Point PCB for XD & XD-lwin enclosures types
		04	: Gas Point PCB for XD-JB85 & XD-JB85win enclosures types



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 [15] **Equipment description**
 (Continued)

Model Reference

[e]	Identification of the sensitive element:	01	: LEL VQ1
		02	: LEL VQ21
		03	: VQ6
		04	: O ₂
		05	: CO
		06	: H ₂ S
		07	: H ₂
		08	: ETO
		13	: PH ₃
		16	: HCl
		18	: HCN
		20	: THT
		21	: HCOOH
		22	: KE-25
		23	: I.R. CO ₂
		24	: CCl ₂ F ₂ (Freon®)
		25	: I.R. LEL
		26	: I.R. Vol
		27	: I.R. ppm
		28	: TBM
29	: PID		
30	: MPS		
31	: E.C.		

Rated characteristics:

Applicable to the versions 1 2 2 0 3 ** and 1 2 3 0 3 **:

- Supply voltage up to: 24 V_{dc}
- Supply current up to: 425 mA
- Dissipated power: 10.2 W

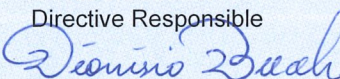
Applicable to the versions 1 2 4 0 4 **, 1 2 5 0 4 ** and 1 2 6 0 4 **:

- Supply voltage up to: 24 V_{dc}
- Supply current up to: 65 mA
- Dissipated power: 1.6 W


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Warning label

WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

Routine tests

None.

[16] **Assessment Report n° EPT.23.REL.02/2213027**

This EU-Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 2014/34/EU and to harmonized technical standards listed in this certificate performed by the Notified Body Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report above cited.

[17] **Special condition for a safe use**

Flameproof joints shall not be repaired.

[18] **Essential Health and Safety Requirements**

Assured by compliance with harmonized standards.

[19] **Descriptive documents**

The equipment object of this Certificate are described by the following documents that are scheduled documents and therefore they cannot be modified without the explicit authorization of the Notified Body.

Type of document	Document identification	Rev.	Date
Technical description	Explorer Gas Point Series Gas sensor Technical Descriptive Note	1	15-02-2023
Safety instructions	SAFETY INSTRUCTIONS Gas sensors Explorer Gas Point Series Gas sensor	1	15-02-2023
Drawing	1000001M.159.00LB Sensor Housing type B	8	02-10-2020
* Drawing	100000M1.167.05LB (Sensor Housing Type B – Identification Tag - version 5)	6	18-04-2023

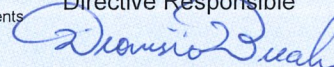
* New or revised document



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[20] Terms and conditions

The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.

The following conditions may render this certificate invalid:

- changes in the design or construction of the product;
- changes or amendments to the Directive;
- changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 2014/34/EU Directive.

[21] History

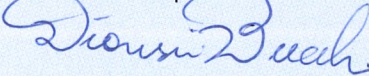
Issue	Description	Date
0	First Emission.	09-11-2020
1	A new version with a different electronic board and smaller flameproof enclosure has been introduced as alternative construction version and the descriptive documents has been updated.	27-04-2023
2	A typing error regarding revision status of a descriptive document has been fixed.	26-10-2023



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End of Certificate

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