1 # EU-TYPE EXAMINATION CERTIFICATE

2 Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

3 EU-Type Examination Certificate Number: **CSACa 24ATEX1010X** Issue: **2**

4 Equipment: **Remote Transmitter, model number: CX2100TR**
Transmitter with Integral Probe Models: CX2100PI
Remote Probe with Junction Box Models: CX2100DR

5 Manufacturer: **Rosemount Inc.**

6 Address: 6021 Innovation Blvd.
Shakopee MN 55379
United States of America

7 This product and any acceptable variation thereto, is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Testing & Certification Inc., Notified Body No. 2899 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in item 16.2.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

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

Where additional criteria beyond those given here have been used, they are listed in item 18 in the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed in item 17 of this certificate.

11 This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance with the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following (additional marking is provided in the Schedule as a part of item 15, if applicable):

Refer to Schedule

Signed: D Magee
Title: Senior Director of Operations
Date: 19 August 2026

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13 # SCHEDULE

14 **EU-Type Examination Certificate Number:** **CSACa 24ATEX1010X** Issue: **2**

15 **Description:**

Marking

CX2100TR

II 2 G
Ex db IIB+H2 T6 Gb
Operating temperature range:
-40°C ≤ Ta ≤ +65°C

CX2100PI / CX2100DR

II 2 G
Ex db IIB+H2 T3…T4 Gb
Transmitter with Integral Probe Models:
CX2100PI Operating temperature range:
-40°C ≤ Ta ≤ +65°C
Remote Probe with Junction Box Models:
CX2100DR Operating temperature range:
-40°C ≤ Ta ≤ +90°C

General:

The CX2100TR O2 Analyzers are designed to be used with a variety of DR (direct replacement) probe models of CX2100, 6888A, 6888C, OXT4A, and OXT4C (e.g. OXT4CDR and OXT4CDRNF). These CX2100TR O2 Analyzers are thus used to measure the residual oxygen concentration of the flue gases that result from a combustion process such as a boiler, process heater, or incinerator.

The CX2100TR plus probe assembly uses a heated zirconium oxide sensing cell that generates a millivolt signal based on the difference in gas concentration between the process and the ambient air. A 4 - 20mA signal passes through the integral signal conditioner to the controller. The signal current is proportional to the percentile of O2 concentration inside the duct. The CX2100TR contains all the necessary electronics to perform the oxygen measurement and to control the internal heater that is located at the hot end of the probe.

The CX2100TR construction is as described in drawings 02101-1103 and MS-00825-0100-9740 (Quick Start Guide). It consists of an aluminum housing and an aluminum junction box joined and separated by a glassed header / feedthrough that is clamped to hold the parts together. The two volumes are both flameproof (Ex db).

The CX2100DR is an assembly of a probe with a junction box. The probe contains a heated sensing cell as described above. A junction box (the same as used in the CX2100TR) facilitates connection of the probe to a transmitter.

The CX2100PI is an assembly of the transmitter directly to the probe.

Detail	

Model number:

CX2100:

CX2100	aa	bb	cc	dd	ee	ff	gg	hh	ii & others X & etc
I	II	III	IV	V	VI	VII	VIII	IX	

REF.	DESCRIPTION	POSSIBLE VALUES	EXPLANATION
I	Model	CX2100	In-Situ Oxygen Transmitter
II	Architecture	PI TR DR	PROBE WITH TRANSMITTER REMOTE TRANSMITTER ONLY PROBE WITH JUNTION BOX

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Detail				
	III	Probe Length	NA 18 03 06	No Selection 18-in. (0.46m) 3-foot (0.91m) 6-foot (1.8m)
	IV	Probe Flange Type	-	Not relevant for explosion safety of CX2100TR
	V	Diffuser	-	Not relevant for explosion safety of CX2100TR
	VI	Weld Plate	-	Not relevant for explosion safety of CX2100TR
	VII	Cell Type	-	Not relevant for explosion safety of CX2100TR
	VIII	Housing & Junction Box Material	1A 1B	ALUMINUM, ½-14NPT ALUMINUM, M20 x 1.5
	IX	Product Certifications	E1 E7 Other options	ATEX IECEx Certification selections not affecting this approval
	X, etc	Additional Options	Various	Additional options not relevant for explosion safety

Variation 1 – This variation introduced the following changes:

i. Update two schedule drawings.
ii. Revise the voltage rating of the equipment.
iii. Revise the Product Description.
iv. Revise the markings.
v. Revise the equipment nomenclature in the Marking section.

Variation 2 – This variation introduced the following changes:

i. Addition of model CX2100PI and CX2100DR.

16 **Drawings and documents:**

16.1 **Technical documents:**

Refer to Certificate Annex.

16.2 **Associated reports and certificate history:**

Issue	Date	Report number	Comment
0	31 October 2024	R80200789A	The release of the prime certificate.
1	20 June 2025	R80254038A	The introduction of Variation 1.
2	19 August 2026	R80289825A	The introduction of Variation 2.

17 **Specific conditions of use** (denoted by "X" after the certificate number):

17.1 Flameproof joints are not intended to be repaired.

17.2 Clamp Screw requires Class 70 tensile strength.

17.3 To maintain T3 flange temperature must not exceed 190°C.

17.4 To maintain T4 flange temperature must not exceed 115°C.

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18 **Essential health and safety requirements of Annex II** (EHSRs):

The relevant EHSRs that are not addressed by the standards listed in item 9 of this certificate have been identified and conformity of the product demonstrated in the reports listed in item 16.2.

19 **Remarks and additional information:**

The use of this certificate is subject to the regulations applicable to holders of CSA Group Testing & Certification Inc. certificates.

Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.

19.1 **Conditions of manufacture:**

None

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Certificate Annexe

Document History

Issue - 0

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
02101-1100	1 of 6	AA	08 Oct 24	Approval Drawing CX2100-TR Hazloc
00825-0100-4210	1 to 55	AB	08 Oct 24	QSG CX2100TR

Issue - 1

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
02101-1100	1 to 6	AB	30 May 25	CX2100TR HAZLOC
MS-00825-0100-9740	1 to 44	AB	30 May 25	Quick Start Guide

Issue - 2

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
02101-1103	1 to 13	AB	30 Jul 26	CX2100 HAZLOC
MS-00825-0100-9740	1 to 48	AC	30 Jul 26	Quick Start Guide – Rosemount CX2100 In-Situ Oxygen Analyzer

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