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 CSA 24.0048X**

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Certificate history:
Issue 1 (2025-06-20)
Issue 0 (2024-10-31)

Status: **Current**

Issue No: 2

Date of Issue: 2026-08-19

Applicant: **Rosemount Inc**
6021 Innovation Blvd
Shakopee
MN 55379
United States of America

Equipment: **Remote Transmitter, Model Number: CX2100TR, Transmitter with Integral Probe Models: CX2100PI, Remote Probe with Junction Box Models: CX2100DR**

Optional accessory:

Type of Protection: **Flameproof 'db'**

Marking:

Transmitter, Model: CX2100TR
Ex db IIB+H2 T6 Gb
Operating temperature range: -40°C ≤ Ta ≤ +65°C

Models: CX2100PI / CX2100DR
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

Approved for issue on behalf of the IECEx Certification Body: **Dave Magee**

Position: **Senior Director of Operations**

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:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W IR3
Canada

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Manufacturer: **Rosemount Inc**
6021 Innovation Blvd
Shakopee
MN 55379
United States of America

Manufacturing locations: **Emerson Asia Pacific Pte Ltd**
(Rosemount Division)
1 Pandan Crescent
Singapore 128461
and
9 Gul Road #01-01 Singapore 629361
Singapore

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 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 Reports:

CA/CSA/ExTR24.0056/00 CA/CSA/ExTR24.0056/01 CA/CSA/ExTR24.0056/02

Quality Assessment Reports:

GB/BAS/QAR06.0072/14 GB/BAS/QAR07.0014/12

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

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 O_2 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 drawing 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.

See annexe for further information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Flameproof joints are not intended to be repaired.
2. Clamp Screw requires Class 70 tensile strength.
3. To maintain T3 flange temperature must not exceed 190°C.
4. To maintain T4 flange temperature must not exceed 115°C.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
This issue, Issue 1, introduced the following changes:

1. Update two schedule drawings.
2. Revise the voltage rating of the equipment.
3. Revise the Product Description.
4. Revise the equipment nomenclature in the Marking section.

This issue, Issue 2, introduced the following changes:

1. Addition of model CX2100PI and CX2100DR.

Annex:

IECEx CSA 24.0048X Issue 2 Annexe.pdf

Annexe to: **IECEx CSA 24.0048X Issue 2**

Applicant: **Rosemount Inc.**

Apparatus: **Remote Transmitter Model Number: CX2100TR**
Transmitter with Integral Probe Models: CX2100PI
Remote Probe with Junction Box Models: CX2100DR

EQUIPMENT (continued)

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
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

Date: **19 August 2026**

CSA Group Testing & Certification Inc.
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