



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

UNIT VERIFICATION

Certificate No.: **IECEX EESF 24.0039X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2025-03-03
Applicant: **KxS Technologies Oy**
Zirkonipolku 2 A
Vantaa FI-01700
Finland
Equipment: **Inline Concentration Monitor DCM-10**
Type of Protection: **Increased safety, Protection by encapsulation**
Marking: **Ex ec mc IIC T4 Gb/Gc**

Approved for issue on behalf of the IECEx
Certification Body:

Jenni Hirvelä

Position:

Senior Expert

Signature:
(for printed version)

Date:
(for printed version)

2025-03-03

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 Electric & Electronics Finland Oy
Kivimiehentie 4
Espoo FI-02150
Finland





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Date of issue: 2025-03-03

Issue No: 0

Manufacturer: **KxS Technologies Oy**
Zirkonipolku 2 A
Vantaa FI-01700
Finland

Manufacturing
locations: **KxS Technologies Oy**
Zirkonipolku 2 A
Vantaa FI-01700
Finland

This Unit verification certificate is issued as verification that the Apparatus identified on page 1, was assessed and tested and found to comply with the IEC Standard list below. 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 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

[IEC 60079-26:2021](#) Explosive atmospheres - Part 26: Equipment with Separation Elements or combined Levels of Protection
Edition:4.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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:

[FI/EESF/ExTR24.0045/00](#)

Quality Assessment Report:

As this is a Unit Verification Certificate, no QAR is applicable as this certificate is specific to the items listed by serial number or other unique identification.



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Inline Concentration Monitor DCM-10 provides real-time measurements in semiconductor wet chemical process applications. The liquid measurement technology is based on refractive index. Inline Concentration Monitor DCM-10 includes an integrated pT-1000 temperature element for process temperature measurement and simultaneous automatic temperature compensation of the concentration measurement.

Inline Concentration Monitor DCM-10 operates with 24VDC input power supply. The communication signal is transferred through either an analogue 4-20mA port, or a digital Modbus TCP port. Respective shielded connector port carries a 24VDC input power supply pinout. When the analogue output port is chosen, the other digital port is used as a service channel for sensor parameter and diagnostics update in the user interface on a computer web browser, external display, or mobile device. All user interface options can be used simultaneously.

Electrical Ratings:

$U_N = 24 \text{ V}_{DC}$

$I_N = 110 \text{ mA}$

$P = 2.5 \text{ W}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Allowed ambient temperature range is $0 \text{ }^\circ\text{C} \leq T_{amb} \leq 45 \text{ }^\circ\text{C}$.
2. The connector shield is isolated from earth and may present 5 pF capacitance.