

1. **CERTIFICATE OF CONFORMITY**
2. **Equipment or Protective System Intended for use in Potentially explosive atmospheres
Directive 2014/34/EU**
3. Certificate Number: **EESF 23 ATEX 016X**
4. Product: **INLINE BRIX MONITOR**
Certified type: **DCM-20**
5. Manufacturer: **KxS Technologies Oy**
6. Address: **Zirkonipolku 2 A, FI-01700 Vantaa, Finland**
7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. Eurofins Electric & Electronics Finland Oy, Notified Body number 0537, in accordance with Article 17 of 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 confidential report No. EUFI29-22004571-T1.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN IEC 60079-7:2015/A1:2018 EN 60079-18:2017 IEC 60079-26:2021
10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
11. This Certificate of Conformity has been given according to Annex IX to the Directive and it gives the full compliance with the Directive. According to Article 16 of the Directive the CE marking shall be followed by the identification Number 0537 of the Notified Body.
12. The marking of the product shall include the following:

**II 2/3G Ex ec mc IIC T4 Gb/Gc**

Espoo, 26.6.2023

Eurofins Electric & Electronics Finland Oy**Jenni Hirvelä**
Senior Expert**Kari Koskela**
Senior Expert

This document is digitally signed.



13. Schedule**14. Certificate of Conformity EESF 23 ATEX 016X****15. Description of Product**

INLINE BRIX MONITOR DCM-20 is designed to define liquid product concentration is process conditions. Measurement method is refractive index measurement using low intensity yellow light reflecting back from process liquid sensor measurement window interface. With optical reflection angle measurement, liquid concentration can be calculated in corporation of liquid temperature. All measurement functions are integrated in the sensor - no transmitter required. Measurement output options are analog and digital communication protocols. Two cable connection ports are available: Dual analog 4 - 20mA and Modbus TCP.

Ratings:

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

$I_N = 120 \text{ mA}$

$P = 2.6 \text{ W}$

Sensor code nomenclature:

DCM-20-SR-***-***-SS-AX

1. DCM= Digital Concentration Monitor
2. -20 = Sensor type
3. -SR = Optical measurement range, e.g. SR= Standard Range 1.32...1.53 RIU
4. -*** = Process connection
5. -*** = Insertion length to process
6. -SS = Wetted parts material, e.g. SS= Stainless steel
7. -AX = Area classification, AX = ATEX /IECEx

16. Report Number

EUFI29-22004571-T1

17. Specific Conditions of Use

1. Allowed ambient temperature range is $-15 \text{ }^{\circ}\text{C} \leq T_{amb} \leq +65 \text{ }^{\circ}\text{C}$

18. Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

19. Drawings and Documents

Drawings and documents are listed in the confidential report.