

UK Type Examination Certificate CML 21UKEX21126 Issue 1

United Kingdom Conformity Assessment

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 2 Equipment **Cabinet Condition Monitoring (CCM) Type: IMX12 CCM**
- 3 Manufacturer **Hans Turck GmbH & Co. KG**
- 4 Address **Witzlebenstr. 7
45472 Mühlheim an der Ruhr
GERMANY**

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.

8 This UK Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.

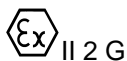
9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

EN 60079-11:2012

EN 60079-28:2015

10 The equipment shall be marked with the following:



Ex ib op is IIC T4 Gb

Ta= -25°C to +70°C





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11 Description

The Cabinet Condition Monitoring (CCM) type MX12 CCM serves for the control cabinet supervision for compliance with specified limit parameters. In over / underflow an error condition on the display switching output or via the communication interface to the higher field level is delivered. The aim is to supply 20 mA loop powered up from the HART interface. All connections are intrinsically safe.

Technical Data

Ambient temperature range: from -25 °C to +70 °C

Electrical Data

Supply circuit EI in type of protection intrinsic safety Ex ib 110

Terminals X11. 15+,16-	U_i	28 V DC
	I_i	100 mA
	P_i	700 mW
effective internal capacitance	C_i	29.5 nF
effective internal inductance	L_i	300 μ H

Output circuit AI and A2 in type of protection intrinsic safety Ex ib IIC

Terminals X14: 9,10, X13: 11,12	U_i	30 V DC
	I_i	100 mA
	P_i	750 mW
	R_i	22 Ω
effective internal capacitance	C_i	11 nF
effective internal inductance	L_i	negligible

Signal circuit E2 in type of protection intrinsic safety Ex ib IIC

Terminals X23: 5. 6	U_o	5 V DC
	I_o	1 mA
	P_o	1.25 mW
effective internal capacitance	C_i	negligible
effective internal inductance	L_i	300 μ H

Variation 1

This variation introduces the following modifications:

- i. The ambient temperature range has been extended to +70°C.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	19 Nov 2021	R14609A/00	Issue of the prime certificate. IBExU16ATEX1005, Issue 01, is attached and shall be referred to in conjunction with this certificate.



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Issue	Date	Associated report	Notes
1	21 Mar 2023	R16333A/00	IBExU16ATEX1005, Issue 02, is attached and shall be referred to in conjunction with this certificate.

Note: Drawings that describe the equipment are listed in the Annex.

13 Conditions of Manufacture

None.

14 Specific Conditions of Use

None.

Certificate Annex

Certificate Number CML 21UKEX21126
Equipment Cabinet Condition Monitoring (CCM) Type: IMX12 CCM
Manufacturer Hans Turck GmbH Co. KG



The following documents describe the equipment defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
7570092	1 of 1	-	19 Nov 2021	Marking drawing

Issue 1

For all drawings, refer to attached certificate IBExU16ATEX1005, Issue 2.