



EU Type Examination Certificate CML 20ATEX2030X Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **DM650XTM Temperature Indicator**
- 3 Manufacturer **Status Instruments Ltd**
- 4 Address **Status Business Park,
Gannaway Lane,
Tewkesbury,
Gloucestershire,
GL20 8FD,
United Kingdom**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V. , Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, The Netherlands, Notified Body Number 2776, 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 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 Annex II to the Directive.

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 conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 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
- 10 The equipment shall be marked with the following:



II 1 G D

Ex ia IIC T4 Ga

Ex ia IIIC T135°C Da

Ta= -20°C to +60°C



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11 Description

The DM650XTM is a battery powered temperature indicator, with a universal input accepting either thermocouple or RTD sensors. The unit is self-contained with the sensor input being the only terminals available.

The DM650XTM Temperature Indicator consists of a polycarbonate and ABS cover arrangement containing the polyurethane based potted indicator arrangement and battery compartment, fitted onto an ABS base, with a single side and/or base port cable entry. The indicator and battery arrangement can be removed for battery replacement, whereas the base unit and associated sensor remains in the hazardous location.

Terminals 1, 2, 3 and 4:

$U_o = 3.66 \text{ Vdc}$

$I_o = 17.0 \text{ mA}$

$P_o = 0.016 \text{ W}$

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	25 Mar 2020	R13092A/00	Issue of Prime Certificate

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

13 Conditions of manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- A copy of the instructions shall be supplied with the equipment.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

- The DM650XTM Temperature Indicator is for use with Thermocouple or RTD temperature sensors meeting the requirements of simple apparatus only.
- When connected to sensors measuring temperatures within a process or location, the installer shall ensure the temperature indicator module is not exposed to temperature outside the ambient temperature range of -20°C to $+60^{\circ}\text{C}$.
- The DM650XTM Temperature Indicator is only to be used in fixed locations and is not a portable device. The self-contained indicator and battery compartment module can be removed for battery replacement only.
- The DM650XTM Temperature Indicator shall only be used with Energizer L92 Lithium AAA batteries.
- The battery replacement and removal shall only be carried out in the safe area. Ensure battery plate is securely fitted before entering the hazardous area.



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- vi. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces (e.g. windblown dust, steam generation and pneumatic powder processing). In addition, the equipment shall only be cleaned with a damp cloth.



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 CML 20.0013X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: **2020-03-25**

Applicant: **Status Instruments Ltd.**
Status Business Park, Gannaway Lane, Tewkesbury, Gloucestershire, GL20 8FD
United Kingdom

Equipment: **DM650XTM Temperature Indicator**

Optional accessory:

Type of Protection: **Intrinsic Safety "ia"**

Marking: **Ex ia IIC T4 Ga**
Ex ia IIIC T135°C Da
Ta = -20°C to +60°C

Approved for issue on behalf of the IECEx
Certification Body:

R C Marshall

Position:

Certification Officer

Signature:
(for printed version)

Date:

2020-03-25

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 E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





IECEx Certificate of Conformity

Certificate No.: **IECEx CML 20.0013X**

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Date of issue: 2020-03-25

Issue No: 0

Manufacturer: **Status Instruments Ltd.**
Status Business Park, Gannaway Lane, Tewkesbury, Gloucestershire, GL20 8FD
United Kingdom

Additional
manufacturing
locations:

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 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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 Report:

[GB/CML/ExTR20.0057/00](#)

Quality Assessment Report:

[GB/TRC/QAR10.0001/07](#)



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Certificate No.: **IECEx CML 20.0013X**

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Date of issue: **2020-03-25**

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The DM650XTM is a battery powered temperature indicator, with a universal input accepting either thermocouple or RTD sensors. The unit is self-contained with the sensor input being the only terminals available.

Refer to Annex for full description and conditions of manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for specific conditions of use.

Annex:

[IECEx CML 20.0013X Iss. 0 Certificate Annex.pdf](#)

Annexe to: IECEx CML 20.0013X Issue 0
Applicant: Status Instruments Ltd.
Apparatus: DM650XTM Temperature Indicator



Description

The DM650XTM is a battery powered temperature indicator, with a universal input accepting either thermocouple or RTD sensors. The unit is self-contained with the sensor input being the only terminals available.

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Terminals 1, 2, 3 and 4:

$U_o = 3.66 \text{ Vdc}$

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Conditions of Manufacture

The following are conditions of manufacture:

- i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. A copy of the instructions shall be supplied with the equipment.

Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

- i. The DM650XTM Temperature Indicator is for use with Thermocouple or RTD temperature sensors meeting the requirements of simple apparatus only.
- ii. When connected to sensors measuring temperatures within a process or location, the installer shall ensure the temperature indicator module is not exposed to temperature outside the ambient temperature range of -20°C to $+60^{\circ}\text{C}$.
- iii. The DM650XTM Temperature Indicator is only to be used in fixed locations and is not a portable device. The self-contained indicator and battery compartment module can be removed for battery replacement only.
- iv. The DM650XTM Temperature Indicator shall only be used with Energizer L92 Lithium AAA batteries.
- v. The battery replacement and removal shall only be carried out in the safe area. Ensure battery plate is securely fitted before entering the hazardous area.
- vi. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces (e.g. windblown dust, steam generation and pneumatic powder processing). In addition, the equipment shall only be cleaned with a damp cloth.

Unit 1, Newport Business Park
New Port Road
Ellesmere Port
CH65 4LZ

T +44 (0) 151 559 1160
E info@cmllex.com

www.cmllex.com

Company Reg No: 3554022 VAT No: GB163022640

