UK Type Examination Certificate CML 21UKEX2277X Issue 0

United Kingdom Conformity Assessment

1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1

2 Equipment **DM650XTM Temperature Indicator**

3 Manufacturer **Status Instruments Ltd.**

4 Address Status business Park Gannaway Lane
Tewkesbury
Gloucestershire
GL20 8FD, UK

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 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), 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

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

H M Amos MIET
Certification Manager

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:

Uo = 3.66 Vdc
Io = 17.0 mA
Po = 0.016W

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	21/04/2021	R13920B/00	Issue of prime certificate

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

13 Conditions of Manufacture

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

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. Any previously certified parts incorporated in the equipment shall be UKCA compliant by the 1st January 2022.

14 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°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.

Certificate Annex

Certificate Number	CML 21UKEX2277X
Equipment	DM650XTM Temperature Indicator
Manufacturer	Status Instruments Ltd

The following documents describe the equipment defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
S5335-01-03	1 of 1	03	21/04/2021	DM650XTM Product label
S5330-01-02	1 to 2	02	21/04/2021	DM650XTM General Assy Certification Drawing

The above list includes marking drawings only. Refer to CML 20ATEX2030X for the full list of drawings.