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 2 G D

Ex ia IIC T4 Ga

Ex ia IIIC T135°C Da

Ta= -20°C to +60°C

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	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.

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.

14 Specific Conditions of Use (Special Conditions)

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 20ATEX2030X**
Equipment	**DM650XTM Temperature Indicator**
Manufacturer	**Status Instruments Ltd.**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
DISPLAY BOARD				
S5319_01_01	1 to 2	01	25 Mar 2020	DM650XTM display circuit diagram (certification)
S5320_01_01	1 to 4	01	25 Mar 2020	DM650XTM PCB Artwork copper Display Dwg (certification)
S5321_01_01	1 of 1	01	25 Mar 2020	DM650XTM display SM ASSY (certification)
S5322_01_01	1 of 1	01	25 Mar 2020	DM650XTM display SUB ASSY (certification)
S5171_02_02	1 of 1	02	25 Mar 2020	DM650XTM DISPLAY PCB Drawing
Z1797_01_01	1 to 2	01	25 Mar 2020	DM650XTM display board items list (Certification)
INTERFACE BOARD (INPUT CARD)				
S5323_01_01	1 of 1	01	25 Mar 2020	DM650XTM Input Card Circuit(certification)
S5324_01_01	1 to 2	01	25 Mar 2020	DM650XTM PCB Artwork copper Input Card (certification)
S5325_01_01	1 of 1	01	25 Mar 2020	DM650XTM Input Card SM ASSY (certification)
S5326_01_01	1 of 1	01	25 Mar 2020	DM650XTM Input Card SUB ASSY (certification)
S5269_02_02	1 of 1	02	25 Mar 2020	DM650XTM INPUT CARD PCB Drawing
Z1796_01_02	1 to 2	02	25 Mar 2020	DM650XTM input card items list (Certification)
BATTERY BOARD (BATTERY CARD)				
S5327_01_01	1 of 1	01	25 Mar 2020	DM650XTM Battery Card Circuit Diagram(certification)
S5328_01_01	1 to 2	01	25 Mar 2020	DM650XTM PCB Artwork copper battery Card (certification)
S5329_01_01	1 of 1	01	25 Mar 2020	DM650XTM Battery Card SUB ASSY (certification)
S5273_02_02	1 of 1	02	25 Mar 2020	DM650XTM BATTERY CARD PCB Drawing
S5275_01_02	1 of 1	02	25 Mar 2020	DM650XTM BATTERY COVER PCB Drawing
Z1880_01_01	1 of 1	01	25 Mar 2020	DM650XTM battery board items list (Certification)
GENERAL ASSY				
S5330_01_01	1 to 2	01	25 Mar 2020	DM650XTM General ASSY (certification)
Z1881_01_01	1 of 1	01	25 Mar 2020	DM650XTM general assy items list (Certification)
S5333_01_02	1 of 1	02	25 Mar 2020	DM650XTM POTTED MODULE (certification)

Certificate Annex

Certificate Number **CML 20ATEX2030X**

Equipment **DM650XTM Temperature Indicator**

Manufacturer **Status Instruments Ltd.**

Drawing No	Sheets	Rev	Approved date	Title
S5335_01_02	1 of 1	02	25 Mar 2020	DM650XTM PRODUCT LABEL
MECHANICAL COMPONENTS				
S1774_var _05	1 of 1	05	25 Mar 2020	SCH4 M24 entry
S1775_var _05	1 of 1	05	25 Mar 2020	SCH4 M20 entry
S1777_var _04	1 of 1	04	25 Mar 2020	SCH4 entry retaining screw
S1779_var _06	1 of 1	06	25 Mar 2020	SCH4 Cap retaining nut
S1782_VAR_11	1 of 1	11	25 Mar 2020	SCH4 Body Single Side Entry Ports
S1783_VAR_11	1 of 1	11	25 Mar 2020	SCH4 Body Double Side Entry Ports
S1901_VAR_06	1 of 1	06	25 Mar 2020	SCH4 M16 entry
S1902_VAR_05	1 of 1	05	25 Mar 2020	SCH4 ½“ BSP entry
S2902_VAR_03	1 of 1	03	25 Mar 2020	SCH4 ½ NPT entry
S5093_VAR_01	1 to 2	01	25 Mar 2020	SCH4 Medium profile cap drawing
S5094_VAR_01	1 of 1	01	25 Mar 2020	SCH4 Medium profile cap spacer drawing