



1 EC TYPE EXAMINATION CERTIFICATE

2 Equipment or protective system intended for use in potentially explosive atmospheres –
Directive 94/9/EC – Annex III

3 EC Type Examination Certificate No.: **TRL06ATEX11100X**

4 Equipment: **DM640XP and DM640XTC Battery Powered Digital Thermometers**

5 Manufacturer: **Status Instruments Ltd**

6 Address: **Green Lane
Tewkesbury
Gloucestershire
GL20 8HE**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 TRL Compliance Ltd, Notified Body number 0891 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment or protective system intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential report **XU1329/7003**.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in section 18 of the schedule to this certificate, has been assured by compliance with:

EN50014:1997/A2:1999, EN50020:2002, EN60079-26:2004, EN50281-1-1:1999/A1:2002

10 If the sign “X” is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions of safe use specified in the schedule to this certificate.

11 This EC-Type Examination certificate relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of this equipment or protective system shall include the following:

 **II 1 G D EEx ia IIC T4 Tamb = -20°C to +50°C**

This certificate and its schedules may only be reproduced in its entirety and without change. This certificate is issued in accordance with the TRL ATEX Certification Scheme.

S K Barrowcliff, Director, Safety Division

Issue date: 11 December 2006

Copy No.: 1e

Distribution:
Status Instruments Ltd and TRL Compliance Ltd

13 **SCHEDULE TO EC TYPE EXAMINATION CERTIFICATE**

14 **TRL06ATEX11100X**

15 **General description of equipment or protective system included within the scope of this certificate**

The DM640XP and DM640XTC are battery powered digital temperature indicators, suitable for use in Category 1G and 1D areas.

The DM640XP is designed to be connected to a RTD (PT100 or NI120) sensor, and the DM640XTC is designed to be attached to type K, T, J, N, R, S, E, or F thermocouples.

The equipment consists of a model SCH4 enclosure manufactured from ABS plastic, with a clear polycarbonate lid / viewing window. A PCB / LCD display assembly with battery holder is encapsulated into the lid. This is then secured to the enclosure with a screw cap and O-ring arrangement. The enclosure incorporates fixing holes for mounting the unit to a wall or other suitable surface. Temperature and setup information is displayed on a 4-digit LCD display.

Protection is ensured by use of proven components, a defined battery and encapsulated parts.

Scheduled drawings and documents

Drawing	Issue	Date	Pages	Description
D2431_01_05	5	24 Nov 06	4	DM640X USER GUIDE
S4310_01_06	6	24 Nov 06	2	DM640XP - ITEMS LIST
S4311_01_06	6	24 Nov 06	2	DM640XTC - ITEMS LIST
S4312_01_03	3	24 Nov 06	1	DM640XTC - PCB SURFACE MOUNT ASSEMBLY
S4313_01_03	3	24 Nov 06	1	DM640XTC - PCB SUB ASSEMBLY
S4314_01_05	5	24 Nov 06	2	DM640XP - CIRCUIT DIAGRAM
S4315_01_05	5	24 Nov 06	2	DM640XTC - CIRCUIT DIAGRAM
S4316_01_03	3	13 Sep 06	1	DM640X - FRONT PANEL LABEL
S4317_01_01	1	12 Jun 06	1	DM640X - INTERNAL PRODUCT LABEL
S4318_01_02	2	12 Jun 06	1	DM640X - GENERAL ASSEMBLY
S4319_01_01	1	12 Jun 06	1	DM640X - BATTERY COVER
S4320_01_02	2	29 Aug 06	1	DM640X - ENCAPSULATION
S4384_01_01	1	24 Nov 06	1	DM640XP - PCB SURFACE MOUNT ASSEMBLY
S4385_01_01	1	24 Nov 06	1	DM640XP - PCB SUB ASSEMBLY
S4386_01_01	1	24 Nov 06	3	DM640X PCB DETAIL
S4387_01_01	1	24 Nov 06	1	SCH4 - CAP RETAINING NUT
S4388_01_01	1	24 Nov 06	1	SCH4 - CAP LOW PROFILE
S4389_01_01	1	24 Nov 06	2	SCH4 - BODY SINGLE SIDE ENTRY
S4390_01_01	1	24 Nov 06	2	SCH4 - BODY DOUBLE SIDED ENTRY

16 **Test report No.:** **XU1329/7003**

17 **Special conditions for safe use**

1. Electrostatic hazard. Do not charge by rubbing or cleaning with solvents.
2. Do not change battery in a hazardous area.
3. DM640XTC – Only suitable for connection to type K, T, J, R, S, N, E and F thermocouples. These shall conform to the requirements for simple apparatus as defined in Clause 5.4 of EN50020:2002 and the input parameters marked on this unit.
4. DM640XP – Only suitable for connection to resistance temperature sensors types PT100 and Ni120. They shall conform to the requirements for simple apparatus as defined in Clause 5.4 of EN50020:2002 and the input parameters marked on this unit.
5. Use only Tekcell SB-AA11 battery, part no 28-302-0036-00.
6. The unit shall be cleaned regularly to prevent the build up of excessive dust layers.

13 **SCHEDULE TO EC TYPE EXAMINATION CERTIFICATE**

14 **TRL06ATEX11100X**

18 **Essential health and safety requirements**

Covered by application of the standards listed in section 9 of this certificate and the assessment conducted in the test report listed in section 16 of this certificate.

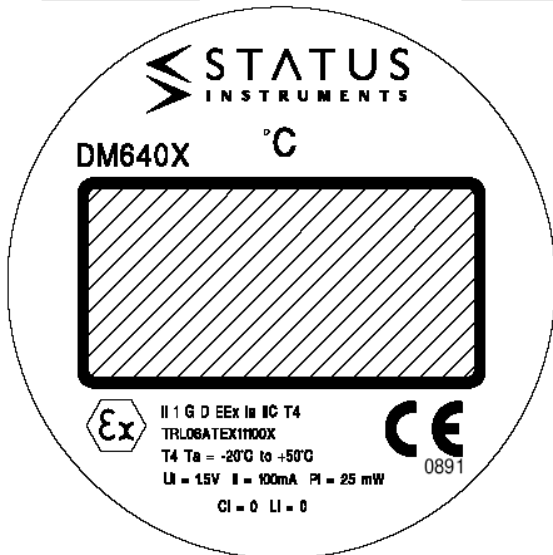
19 **Additional information (including special conditions for manufacture)**

It must be ensured that the encapsulant is at least 1mm deep above all components.

Photographs



Details of markings



Details of variations to this certificate

None

Notes to CE marking

In respect of CE Marking, TRL Compliance Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.