

CERTIFICATE

(1) Type Examination

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) Type Examination Certificate Number: **DEKRA 13ATEX0129 X** Issue Number: 1

(4) Equipment: **Ex ic voltage limiter, types F30 Ex ic adapter and F30-PC Ex ic adapter.**

(5) Manufacturer: **Measurement Technology Limited**

(6) Address: **Great Marlings, Butterfield, Luton, Bedfordshire LU2 8DL, United Kingdom**

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

(8) DEKRA Certification B.V., certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential test report no. NL/DEK/ExTR13.0038/**.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2012

EN 60079-15 : 2010

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design, examination and tests of the specified equipment and not to the manufacturing process and supply of this equipment.

(12) The marking of the equipment shall include the following:



II 3 G

Ex nA IIC T4 Gc

This certificate is issued on 23 December 2013 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.


R. Schuller
Certification Manager

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° Integral publication of this certificate and adjoining reports is allowed. This Certificate may only be reproduced in its entirety and without any change.

(13) **SCHEDULE**

(14) **to Type Examination Certificate DEKRA 13ATEX0129 X**

Issue No. 1

(15) **Description**

The Ex ic voltage limiter, types F30 Ex ic adapter and F30-PC Ex ic adapter, is intended to be connected in accordance with control drawing SCI-1073.

Type F30 Ex ic adapter is supplied with screw terminal connectors and type F30-PC Ex ic adapter is supplied with spring clamp connectors.

Ambient temperature range -40 °C to +70 °C.

Electrical data

Input: "Trunk in" (Terminals +, shield and -)

Maximum working voltage $U_m = 21V$ d.c. and a current per segment $I_m = 300mA$, or

Maximum working voltage $U_m = 24V$ d.c. and a current per segment $I_m = 200mA$.

$P_{max} = 2W$.

Output: "Trunk out to Megablock" (Connector +, shield and -)

Maximum output voltage $U_o = 17.5 V$ and maximum output current $I_m = 300mA$

Installation instructions

The instructions and control drawing SCI-1073 provided with the equipment shall be followed in detail to assure safe operation.

(16) **Test Report**

No. NL/DEK/ExTR13.0038/**.

(17) **Special conditions for safe use**

When installed in an explosive gas atmosphere, the Ex ic voltage limiter, types F30 Ex ic adapter and F30-PC Ex ic adapter shall be placed in an enclosure that meets the requirements of an appropriate, recognized type of protection in accordance with EN 60079-0.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. NL/DEK/ExTR13.0038/**.