CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 03ATEX1194 X** Issue Number: 7

(4) Product: **Loop Powered Indicator MTL661, MTL662, MTL663, MTL664 and MTL665**

(5) Manufacturer: **Eaton Electric Limited**

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

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

(8) DEKRA Certification B.V., Notified Body number 0344 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 product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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 number NL/KEM/ExTR08.0008/03.

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

EN 60079-0 : 2012 + A11 :2013 **EN 60079-11 : 2012**

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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

II 1 G Ex ia IIC T4 Ga
II 1 D Ex ia IIIC T100 ºC Da

Date of certification: 30 March 2017

DEKRA Certification B.V.

R. Schuller
Certification Manager

PRODUCTS RvA C 001

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(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 03ATEX1194 X** Issue No. **7**

(15) **Description**

The 4 ... 20 mA Loop Powered Indicator Model MTL661, Model MTL662, Model MTL663, Model MTL664 and Model MTL665 for panel mounting or field mounting, is connected in series in an intrinsically safe circuit. The input circuit of the indicator is designed such, that is does not influence the intrinsically safe circuit to which it is connected.
The indicator may optionally be provided with a backlight (Model MTL66xB).

The enclosure of the indicator provides a degree of protection of at least IP67 in accordance with EN 60529.

Ambient temperature range -25 °C to +70 °C.

The maximum temperature of the enclosure T100 °C is referred to an ambient temperature of 70 °C and is applicable to a maximum dust layer thickness of 5 mm.

Electrical data

Input circuit (terminals 4 and 5):
in type of protection intrinsic safety Ex ia IIC/IIIC, only for connection to an intrinsically safe circuit, with the following maximum values:
U_i = 30 V; I_i = 200 mA; P_i = 1,2 W; C_i = 0 nF; L_i = 0 mH

Backlight circuit (terminals 9 and 10):
in type of protection intrinsic safety Ex ia IIC/IIIC, only for connection to an intrinsically safe circuit, with the following maximum values:
U_i = 28 V; I_i = 200 mA (resistively limited); P_i = 0,96 W; C_i = 0 nF; L_i = 0 mH

The backlight circuit is separated from the input circuit.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/KEM/ExTR08.0008/03.

(17) **Specific conditions of use**

When the enclosure of the Indicator is made of aluminium alloy, when used in a potentially explosive atmosphere requiring apparatus of equipment category 1 G, the Indicator shall be installed so, that even in the event of rare incidents, an ignition source due to impact or friction sparks between the enclosure and iron/steel is excluded

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/KEM/ExTR08.0008/03.

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 03ATEX1194 X** Issue No. **7**

(20) **Certificate history**

Issue 1	-	202951300	initial certificate
Issue 2	-	209595300	temerature change, Assessment to newer editions of standards.
Issue 3	-	210476400	entity parameter changes
Issue 4	-	211270200	assessment to new edition of standard
Issue 5	-	214328600	Assessment to newer editions of standards, address change
Issue 6	-	215306600	Addition of model, address change
Issue 7	-	219979500	Name change, EN 60079-26 removed.