1 # EU - TYPE EXAMINATION CERTIFICATE

2 **Safety Device, Controlling Device or Regulating Device intended for use outside a potentially explosive atmosphere but required for or contributing to the safe functioning of Equipment and Protective Systems with respect to the risks of explosion**
Directive 2014/34/EU

3	EU - Type Examination Certificate Number:	**SGS24ATEX0059 Issue 0**
4	Product:	**PCL45USB configurator for MTL converters**
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 SGS Fimko Oy, Notified Body number 0598, 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 Report No. **GB/SGS/ExTR24.0062/00**

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

EN IEC 60079-0: 2018 **IEC 60079-11: 2023**

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) GD	**[Ex ia Ga] IIC** **[Ex ia Da] IIIC**	**-10°C ≤ Ta ≤ +60°C**
I (M1)	**[Ex ia Ma] I**	

SGS Fimko Oy Customer Reference No. **0703** Project File No. **24/0080**

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13 **Schedule**

14 **Certificate Number SGS24ATEX0059**

15 Description of Product

The PCL45USB configurator allows MTL converters to be configured from a standard PC running a Microsoft® Windows® operating system.

This apparatus is an associated electrical apparatus for use in safe areas. Converters can be configured from the safe area, while on-line, and configurations can be saved to disk and printed out when required. It is suitable for use with MTL4500 and MTL5500 range of products.

The configurator is made in a rectangular plastic case, inside of which is located the main electronics of the product. One single printed circuit board (PCBA) holds all electronics.

There are two fixed leads with connectors located on opposite sides of the case for connections:-

- PC side (Safe area connection): cable with USB connector,
- Converter side (Hazardous area connection): cable with 3.5mm 3 pole jack plug for MTL4500 and MTL5500 range of converters.

Input / Output Parameters

Safe Area Connections (USB)

U_m = 253V r.m.s.

Hazardous Area Terminals (3.5mm Jack Plug)

U_o = 6.51V C_i = 0.3nF U_i = 8V
I_o = 15.2mA L_i = 1.3µH P_i = 27mW
P_o = 25mW

The capacitance and either the inductance or inductance to resistance ratio (L/R) of the hazardous area terminals must not exceed the following values:

GROUP	CAPACITANCE (µF)	INDUCTANCE (mH)	OR	L/R RATIO (µH/ohm)
IIC	22	153		1,437
IIB**	500	615		5,749
IIA	1000	1,000		10,000
I	1000	1,000		10,000

** Group IIB parameters also applicable for associated apparatus [Ex ia Da] IIIC

Notes:

1) The above load parameters apply when one of the two conditions below is given:
   - the total L_i of the external circuit (excluding the cable) is < 1% of the L_o value or
   - the total C_i of the external circuit (excluding the cable) is < 1% of the C_o value.

2) The above parameters are reduced to 50% when both of the two conditions below are given:
   - the total L_i of the external circuit (excluding the cable) is ≥ 1% of the L_o value and
   - the total C_i of the external circuit (excluding the cable) is ≥ 1% of the C_o value.

The reduced capacitance of the external circuit (including cable) shall not be greater than 1µF for Groups IIB, IIA & I and 600nF for Group IIC.

16 Report Number

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17 Specific Conditions of Use

None.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	Protection against other hazards (LVD type requirements, etc.)
1.2.8	Overloading of equipment (protection relays, etc.)
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
CIPCL45USB-1	1 to 7	1	30-04-24	PCL45USB Certification Drawing
CI4000-2	1 to 2	2	11.92	MTL4000 Series Double Toroid 2-core I.S. Transformer
CITFR172-1	1 to 2	1	7.24	TFR172 ATEX & IECEx Certification Drawing

The above drawings are associated with IECEx SGS 24.0018 Issue 0.