

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION **IEC Certification System for Explosive Atmospheres**

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx SGS 24.0018** Page 1 of 3 Certificate history:

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10/9/2024

Issue No: 0 Status: Current

2024-09-10 Date of Issue:

Eaton Electric Limited Applicant:

Great Marlings Butterfield Luton Bedfordshire LU2 8DL **United Kingdom**

Equipment: PCL45USB configurator for MTL converters

Optional accessory:

Intrinsic Safety Type of Protection:

Marking: [Ex ia Ga] IIC

> [Ex ia Da] IIIC [Ex ia Ma] I

-10°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx

Certification Body:

Position: **Certification Manager**

Signature:

(for printed version)

(for printed version)

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The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

SGS United Kingdom Ltd Rockhead Business Park Staden Lane **Buxton, Derbyshire SK17 9RZ United Kingdom**





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Manufacturer: Eaton Electric Limited

Great Marlings Butterfield Luton Bedfordshire LU2 8DL

United Kingdom

Manufacturing locations:

Eaton Electric LimitedGreat Marlings

Butterfield Luton Bedfordshire LU2 8DL United Kingdom MTL Instruments PVT Limited No 3 Old Mahabalipuram Road

Sholinganallur Chennai . **India**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS:

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements

Edition:7.0

IEC 60079-11:2023 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition:7.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

GB/SGS/ExTR24.0062/00

Quality Assessment Reports:

GB/BAS/QAR06.0022/11 GB/BAS/QAR07.0017/10



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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 and is normally mounted in a non-hazardous (safe) area. 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 Terminals (USB)

 $U_{\rm m}$ = 253V r.m.s.

Hazardous Area Terminals (3.5mm Jack Plug)

U_{o}	=	6.51V	C _i	=	0.3nF	U _i	=	8V
lo	=	15.2mA	L _i	=	1.3µH	Pi	=	27mW
P _a	_	25m\/\						

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	INDUCTANCE	OR	L/R RATIO
	(µF)	(mH)		(µH/ohm)
IIC	22	153		1,437
IIB**	500	615		5,749
IIA	1000	1,000		10,000
1	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 Li of the external circuit (excluding the cable) is < 1% of the Lo value or
- the total Ci of the external circuit (excluding the cable) is < 1% of the Co value.
- 2) The above parameters are reduced to 50% when both of the two conditions below are given:
- the total Li of the external circuit (excluding the cable) is ≥ 1% of the Lo value and
- the total Ci of the external circuit (excluding the cable) is ≥ 1% of the Co 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

SPECIFIC CONDITIONS OF USE: NO