	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 BAS 15.0118X	Page 1 of 4	ŀ	Certificate history:		
Status:	Current	Issue No: 2	2	lssue 1 (2016-11-16) Issue 0 (2015-10-19)		
Date of Issue:	2024-02-08					
Applicant:	Eaton Electric Limited Great Marlings Butterfield Luton Bedfordshire LU2 8DL United Kingdom					
Equipment:	MTL4541* / MTL4544* Repeater	Power Supply, 4/20mA for 2 or 3-Wire Tra	nsmitters			
Optional accessory:						
Type of Protection:	Type of Protection 'n'					
Marking:	Ex nA IIC T4 Gc (-20°C ≤ Ta ≤ +60°C)					
Approved for issue c Certification Body:	on behalf of the IECEx	D Brearley				
Position:		Certification Consultant				
Signature: (for printed version)		Breenley	-			
Date: (for printed version)		8/2/24				
This certificate is no	schedule may only be reproduced in full. t transferable and remains the property of the property of the property of the transition of this certificate may be verified by	he issuing body. visiting www.iecex.com or use of this QR Code.				
Certificate issued SGS UK Limit Rockhead Busin Staden Lane Buxton, Derbys United Kingdo	ed ness Park hire SK17 9RZ		S	GS		



IECEx Certificate of Conformity

TM					
Certificate No .:	IECEx BAS 15.0118X	Page 2 of 4			
Date of issue:	2024-02-08	Issue No: 2			
Manufacturer:	Eaton Electric Limited Great Marlings Butterfield Luton Bedfordshire LU2 8DL United Kingdom				
Manufacturing locations:	Eaton Electric Limited Great Marlings Butterfield Luton Bedfordshire LU2 8DL United Kingdom	MTL Instruments PVT Limited No 3 Old Mahabalipuram Road Sholinganallur Chennai 600 119 India			
IEC Standard list bel found to comply with	ow and that the manufacturer's quali	representative of production, was assessed and tested and found to comply with the ity system, relating to the Ex products covered by this certificate, was assessed and ents.This certificate is granted subject to the conditions as set out in IECEx Scheme ed			
STANDARDS : The equipment and a to comply with the fo		ed in the schedule of this certificate and the identified documents, was found			
IEC 60079-0:2011 Edition:6.0	1 Explosive atmospheres - Part 0: General requirements				
IEC 60079-15:2010 Edition:4					
		ate compliance with safety and performance requirements spressly included in the Standards listed above.			
TEST & ASSESSME A sample(s) of the ed		the examination and test requirements as recorded in:			
Test Reports:					
GB/BAS/ExTR15.02	67/00 GB/BAS/Ex ⁻	TR16.0241/00 GB/SGS/ExTR24.0008/00			
Quality Assessment	Reports:				
GB/BAS/QAR06.002	2/10 GB/BAS/QA	R07.0017/10			



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

2024-02-08

The MTL4544* Repeater Power Supply, 4/20mA for 2 or 3-Wire Transmitters is designed to provide a floating d.c. supply for energising two conventional or 'Smart' 2 or 3-Wire 4/20mA Transmitters in the hazardous area and repeats these currents in either the non-hazardous area or zone 2, whilst restricting the transfer of energy from unspecified non-hazardous area or zone 2 mounted equipment to the connected transmitter by means of limitation of current and voltage. The equipment also allows bi-directional signal communication between the hazardous and non-hazardous area by connection of a hand-held communicator (HHC).

The MTL4544* Repeater Power Supply, 4/20mA for 2 or 3-Wire Transmitters comprises four isolating transformers that provide galvanic isolation between the hazardous and non-hazardous area circuitry, zener diode chains and resistors providing voltage and current limitation. The above, together with other electronic components, are mounted on a single printed circuit board (PCB) and housed in a moulded plastic enclosure designed to be mounted on a backplane. Polarised plug and sockets are provided for hazardous and non-hazardous area connections. An LED is fitted to provide power on indication.

The MTL4541* Repeater Power Supply, 4/20mA for 2 or 3-Wire Transmitters are depopulated versions of the MTL4544* and has only one channel populated. Both the MTL4541* and MTL4544* are available in model variants MTL4541, MTL4541B, MTL4541P, MTL4544 & MTL4544B. All model variants are built on a common PCB with minor differences regarding the configuration and components populated.

This certificate covers the installation of the MTL4541* and MTL4544* Repeater Power Supply, 4/20mA for 2 or 3-Wire Transmitters (IECEx BAS 06.0034) in a Zone 2 location. The equipment is designed to be installed on a separately certified backplane. See Certificate Annex for model details and electrical parameters.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1) The equipment must be installed in an area of not more than Pollution Degree 2 as defined in IEC 60664-1, and in an enclosure that provides a degree of protection of at least IP54 and meets the relevant requirements of IEC 60079-0 and IEC 60079-15.

2) All connections to the equipment must not be inserted or removed unless either the area in which the equipment is installed is known to be non-hazardous, or the circuit to which it is connected has been de-energised.

3) Any backplane used does not form part of this certificate and shall be separately certified for use in Zone 2.

4) The external backplane must be fitted with two retention clips type MTL 012-533 that allow the equipment to be 'clipped' to the backplane. The retention clips shall always be in place when the equipment is energised.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

2024-02-08

Variation 2.1

Date of issue:

To permit minor product changes that do not affect the previous assessment.

Annex:

IECEx BAS 15.0118X Annex Issue 0.pdf



ANNEX to IECEx BAS 15.0118X

Issue No. 0

Date: 2015/10/19

MTL4541* / MTL4544* Repeater Power Supply, 4/20mA for 2 or 3-Wire Transmitters

Model Range:

Model No.	
MTL4541	Single Channel Repeater Power Supply, 4/20mA for 2 or 3 Wire Transmitters
MTL4541B	Single Channel Repeater Power Supply, 4/20mA for 2 or 3 Wire Transmitters
MTL4541P	Single Channel Repeater Power Supply, 4/20mA for 2 or 3 Wire Transmitters
MTL4544	Dual Channel Repeater Power Supply, 4/20mA for 2 or 3 Wire Transmitters
MTL4544B	Dual Channel Repeater Power Supply, 4/20mA for 2 or 3 Wire Transmitters

Input / Output Parameters – MTL4541, MTL4544 & MTL4544B

Power Supply Input - Terminals 13 & 14

Supply Voltage Range = 20 - 35V d.c.

4/20mA Signal Output – Terminals 8 & 9 (Ch.1) or Terminals 11 & 12 (Ch.2 – MTL4544 and MTL4544B only)

For 20mA nominal output, the maximum load is 450Ω For 24mA nominal output, the maximum load is 360Ω

Transmitter Inputs

Terminals 1 & 2 (Ch.1) or Terminals 4 & 5 (Ch.2 – MTL4544 & MTL4544B only)

Maximum output voltage = 28V d.c.

Terminals 1 & 3 (Ch.1) or Terminals 4 & 6 (Ch.2 – MTL4544 & MTL4544B only)

Maximum output voltage = 1.1V d.c. Maximum input voltage = 30V d.c.

Terminals 2 & 3 (Ch.1) or Terminals 5 & 6 (Ch.2 – MTL4544 & MTL4544B only)

Maximum output voltage = 28V d.c.

Or

The maximum values for the intrinsically safe circuits have to be taken from IECEx Certificate No. IECEx BAS 06.0034.

Input / Output Parameters – MTL4541B & MTL4541P

Power Supply Input - Terminals 13 & 14

Supply Voltage Range = 20 - 35V d.c.



ANNEX to IECEx BAS 15.0118X

Issue No. 0

Date: 2015/10/19

4/20mA Signal Output – Terminals 9 & 11

For 20mA nominal output, the maximum load is 450Ω For 24mA nominal output, the maximum load is 360Ω

Transmitter Inputs

Terminals 1 & 2

Maximum output voltage = 28V d.c.

Terminals 1 & 3

Maximum output voltage = 1.1V d.c. Maximum input voltage = 30V d.c.

Terminals 2 & 3

Maximum output voltage = 28V d.c.

Or

The maximum values for the intrinsically safe circuits have to be taken from IECEx Certificate No. IECEx BAS 06.0034.