1 # UK-TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 UK-Type Examination Certificate Number: **BAS21UKEX0562X**

4 Product: **TP-P**-*-NDI Range of Surge Protection Devices**

5 Manufacturer: **Eaton Electric Limited**

6 Address: **Great Marlings, Butterfield, Luton, Bedfordshire, LU2 8DL**

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

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

The examination and test results are recorded in confidential Report No. **21(C)0386/42**

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

EN IEC 60079-0:2018 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 UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations 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 :

Ex II 2G Ex db IIC T6 Gb (T_{amb} =-40°C to + 60°C)
or T5 Gb (T_{amb} =-40°C to + 80°C)
or T4 Gb (T_{amb} =-40°C to + 85°C)

SGS Baseefa Customer Reference No. **0703** Project File No. **21/0386**

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UKAS PRODUCT CERTIFICATION
0191

R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

13 # Schedule

14 ## Certificate Number BAS21UKEX0562X

15 Description of Product

The TP-P**-*-NDI Series Surge Protection Devices are designed to provide protection for sensitive electronic equipment and are designed to be mounted within a hazardous area.

Within the TP-P**-*-NDI series of Surge Protection Devices, two different working voltages are available, the TP-P48 and TP-P32 denoting 48V and 32V versions respectively.

The TP-P**-*-NDI Series Surge Protection Devices consist of a solid drawn hexagon bar of stainless steel drilled along its axis to accept a printed circuit board with up to three permanently attached cables. The printed circuit board is potted into the housing which has a choice of the male thread forms for attachment purposes. The designation of the surge protection devices depends upon external thread form and the units are given the identification letter N, I, or G for ½" NPT, M20 ISO, and G1/2" thread forms respectively.

The type designations are summarised in the table below:

Voltage (V d.c.)	Thread Form	Type Designation
48	½" NPT	TP-P48-N-NDI
48	M20 ISO	TP-P48-I-NDI
48	G1/2"	TP-P48-G-NDI
32	½" NPT	TP-P32-N-NDI
32	M20 ISO	TP-P32-I-NDI
32	G1/2"	TP-P32-G-NDI

The opposite end of the bar is threaded with a female thread for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries to be fitted with a flameproof stopping plug. The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component) under an EC-Type Examination Certificate to Directive 94/9/EC.

A terminal block is provided, potted into the female end for connection of a male terminal connector allowing connection of cables from the conduit.

The devices are rated at up to a maximum of 48V d.c. with a surge capacity up to 10kA for 20 ms.

A range of temperature classes for different ambient temperature ranges are permitted as described in the table below:

Ambient Temperature Range	Temperature Class
Ta = -40°C to +85°C	T4
Ta = -40°C to +80°C	T5
Ta = -40°C to +60°C	T6

16 Report Number

21(C)0386/42

17 Specific Conditions of Use

1. The permanently attached cables shall be suitably protected against pulling, mechanical damage and terminated within a terminal or junction facility suitable for the conditions of use.
2. These devices are not provided with an external connection facility for an earthing or bonding conductor. It is the user's responsibility to ensure adequate earth continuity via the mounting arrangements.
3. This equipment is also afforded Intrinsically Safe Certification to Baseefa06ATEX0034X, and hence the equipment is dual marked. It is the user's responsibility to determine the protection concept to be applied and permanently mark the equipment in the space provided for guidance in installation and maintenance.

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:

Clause	Subject	Compliance
13	Protection against other hazards (LVD type requirements, etc.)	Manufacturer responsibility
14	Overloading of equipment (protection relays, etc.)	User/Installer responsibility
22(1)	External effects	User/Installer responsibility
22(2)	Aggressive substances, etc.	User/Installer responsibility

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
1100463	1 to 10	H	20SEP21	TP-P** CERTIFICATION DRAWING FOR ATEX

For other current drawings not re-submitted for this assessment see Baseefa06ATEX0035X