



EC-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC

EC-Type Examination Certificate Number : **BAS00ATEX2146X**

Equipment or Protective System: **TYPE TP*-* RANGE OF SURGE PROTECTION UNITS**

Manufacturer: **TELEMATIC LIMITED**

Address: **Luton, Bedfordshire, LU1 3LH**

This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

The Electrical Equipment Certification Service, notified body number 600 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°

00(C)0260 dated 25 January 2001

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

EN 50014: 1997 + Amds 1 & 2

EN 50018: 2000

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

If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

The marking of the equipment or protective system shall include the following:-

II 2 G

EEEx d IIC T6 (T_{amb} = -40°C to +60°C)

EEEx d IIC T5 (T_{amb} = -40°C to +85°C)

This certificate may only be reproduced in its entirety and without any change, schedule included.

File No: EECS 1084/02/002

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



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I M CLEARE
DIRECTOR
25 January 2001



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Schedule

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EC-TYPE EXAMINATION CERTIFICATE N° BAS00ATEX2146X

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Description of Equipment or Protective System

The TP*-* range of Surge Protection Units comprises a solid drawn hexagon bar of Grade 316S11, 303S21, 316 or 316L stainless steel drilled along its axis to accept a printed circuit board with three permanently attached cables. The printed circuit board is then potted into the housing. An internal groove is provided for a key for the potting, and one of a choice of four external male thread forms are provided for attachment purposes. The designation of the surge protection units depend upon the external thread form, N, I, or G for ½ NPT, 20 mm ISO, and G1/2 respectively, and the internal component values (TP48, TPB, TPBA or TP32) as indicated below:-

TP48-N	TP48-I	TP48-G
TPB-N	TPB-I	TPB-G
TPBA-N	TPBA-I	TPBA-G
TP32-N	TP32-I	TP32-G

The devices are rated at 48V d.c. with a surge capacity up to 10 kA for 20 ms. The marking is stamped or engraved onto the flats of the hexagon bar.

Internal and external earth facilities are not provided.

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Report No.

BASEEFA Certification Report No. 00(C)0260

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Special Conditions For Safe Use

- 1 The permanently attached cables shall be suitably protected against 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 apparatus is also afforded Intrinsically Safe Certification to BAS00ATEX1258X, and hence the apparatus is dual marked. It is the user's responsibility to determine the protection concept to be applied and permanently mark the apparatus in the space provided for guidance in installation and maintenance.



13 Schedule

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18 Essential Health and Safety Requirements

Essential Health and Safety Requirements not covered by Standards listed at (9)		
Clause	Subject	Compliance
1.0.2	Analysis of possible operating faults	Manufacturer's Instructions
1.0.3	Special checking and maintenance conditions	No special requirements
1.0.6	Instructions	Manufacturer's Instructions
1.2.2	Components for incorporation or replacement	No user serviceable parts
1.2.4	Dust deposits	Certification for gas atmospheres only
1.2.5	Additional means of protection	Not applicable
1.2.7	Protection against other hazards	BASEEFA Report No. 00(C)0260
1.3.5	Hazards arising from pressure compensation	Not applicable
1.5.	General requirements for safety devices	Not applicable
1.6.1	Manual override	Not applicable
1.6.2	Emergency shutdown	Not applicable
1.6.3	Hazards arising from power failure	Not applicable
1.6.5	Placing of warning devices as parts of equipment	Not applicable
2.0.	Category M	Not applicable
2.1.	Category 1	Not applicable
2.2.1	Category 2G	BASEEFA Report No. 00(C)0260
2.2.2	Category 2D	Not applicable
2.3.	Category 3	Not applicable
3.	Requirements for protective systems	Not applicable

19 DRAWINGS

Number	Sheet	Issue	Date	Description
992921	1	1	20 Dec.00	Drawing List
992921	2	1	20 Dec.00	Marking Details
992921	3	1	20 Dec.00	Circuit Diagram
992921	4	1	20 Dec.00	Internal Components
992921	5	1	20 Dec.00	Housing
992921	6	1	20 Dec.00	General Assembly

These drawings are common to certificate BAS00ATEX1258X held on EECS file 1084/02/006

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BASEEFA List Keywords
2TRANARR



1 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use**
3 **in Potentially explosive atmospheres**
4 **Directive 94/9/EC**

5 Supplementary EC-Type Examination Certificate Number: **BAS00ATEX2146X/1**

6 Equipment or Protective System: **TYPE TP*-* RANGE OF SURGE PROTECTION UNITS**

7 Manufacturer: **TELEMATIC LTD**

8 Address: **Luton, Beds, LU1 3LH**

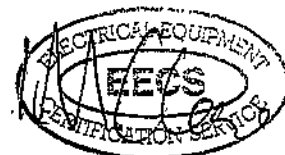
9 This supplementary certificate extends EC-Type Examination Certificate No. BAS00ATEX2146X
10 to apply to equipment or protective systems designed and constructed in accordance with the
11 specification set out in the Schedule of the said Certificate but having any variations specified in the
12 Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate.

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File No: EECS 1084/01/002

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Equipment Certification Service. It does not necessarily indicate that the apparatus
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DIRECTOR
26 April 2002



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Schedule

14 SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS00ATEX2146X/1

Description of the Variation to the Equipment or Protective System

To permit the optional addition of a bridge rectifier and an alternative varistor.

Report No.

None.

Special Conditions For Safe Use

See original certificate.

Essential Health and Safety Requirements

See original certificate.

DRAWINGS

Number	Sheet	Issue	Date	Description
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