



EC-TYPE EXAMINATION CERTIFICATE

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

EC-Type Examination Certificate Number : **BAS00ATEX1258X**

Equipment or Protective System: **SURGE PROTECTION DEVICE TYPE TP**.***

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)0562 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 50020: 1994 EN 50284: 1999

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 1 G EEx ia IIC T5 (-40°C ≤ T_a ≤ +85°C) or T6 (-40°C ≤ T_a ≤ +60°C)

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

File No: **EECS 1084/02/006**

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
1 May 2001



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EC-TYPE EXAMINATION CERTIFICATE N° BAS00ATEX1258X

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Description of Equipment or Protective System

The Surge Protection Device Type TP**-* is designed to protect instrumentation and electronic systems from voltage/power surges through signal cables.

The apparatus comprises a printed circuit board upon which are mounted electrical components. The pcb is encapsulated within a steel enclosure with three wires protruding from the threaded end. The threaded end of the apparatus enables it to be fitted to other apparatus. The flying leads which are colour coded must be suitably terminated within this apparatus.

The TP**-* consists of the following types:-

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

Where:

- a) TP48, TPB, TPBA or TP32 represents the specific internal component values.
- b) NIG represents ½ NPT, 20mm ISO and G ½ external thread forms, respectively.

$$P_i = 1.2W$$

$$C_i = 0$$

$$L_i = 0$$

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Special Conditions For Safe Use

- a) The apparatus is to be installed such that the flying leads are afforded a degree of protection of at least IP20.
- b) This apparatus is also afforded Flameproof Certification to BAS00ATEX2146X, and hence the apparatus is dual marked. It is the user's responsibility to determine the relevant protection concept and permanently mark the apparatus in the space provided for guidance in installation and maintenance.
- c) 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 arrangement.



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18. **Essential Health and Safety Requirements**

ESSENTIAL HEALTH & SAFETY REQUIREMENTS not covered by standards listed in Section 9		
Clause	Subject	Compliance
1.1.3	Changes in characteristics of materials and combinations thereof	Report No 00(C)0562 Clause 5.1.1.3
1.2.2	Components for incorporation or replacement	Report No 00(C)0562 Clause 5.1.2.2
1.2.5	Additional means of protection	Report No 00(C)0562 Clause 5.1.2.5
1.2.7	Protection against other hazards	Report No 00(C)0562 Clause 5.1.2.7
1.4.2	Withstanding attack by aggressive substances	Report No 00(C)0562 Clause 5.1.4.2

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

The above drawings are associated with BASEEFA Certificate BAS00ATEX2146X on EECS
File 1084/01/002.

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BASEEFA List Keywords
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1 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE**

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

3 **Supplementary EC-Type Examination Certificate Number: BAS00ATEX1258X/1**

4 **Equipment or Protective System: SURGE PROTECTION DEVICE TYPE TP**..***

5 **Manufacturer: TELEMATIC LIMITED**

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

7 This supplementary certificate extends EC-Type Examination Certificate No. BAS00ATEX1258X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate.

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

File No: EECS 1084/02/006

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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M. M. CLEARE
DIRECTOR
26 April 2002



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14 SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS00ATEX1258X/1

Description of the Variation to the Equipment or Protective System

VARIATION 1.1

To permit minor component changes that do not affect intrinsic safety.

Report No.

Not applicable.

Special Conditions For Safe Use

See original certificate.

Essential Health and Safety Requirements

See original certificate.

DRAWINGS

Number	Sheet	Issue	Date	Description
992921	1	2	05.03.02	Drawing List
992921	2	2	05.03.02	Marking Details
992921	3	2	05.03.02	Circuit Diagram
992921	4	2	05.03.02	Internal Components
992921	5	2	05.03.02	Housing
992921	6	2	05.03.02	General Assembly

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1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EC - Type Examination Certificate Number: **BAS00ATEX1258X/2**

4 Equipment or Protective System: **Surge Protection Device Type TP***-***

5 Manufacturer: **Measurement Technology Limited**
(formerly held by Telematic Limited)

6 Address: **Luton, Bedfordshire, LU1 3JJ**

7 This supplementary certificate extends EC – Type Examination Certificate No. BAS00ATEX1258X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa (2001) Ltd., Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

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

Baseefa (2001) Ltd. Customer Reference No. 0703

Project File No. 04/0013

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.

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Certificate Number BAS00ATEX1258X/2

15 **Description of the variation to the Equipment or Protective System**

Variation 2.1

To permit all versions of the apparatus to be coded Ex II 1G EEx ia IIC T4 ($-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$) when used with the following FISCO approved input parameters:

P_i = 5.32W
 C_i = 0
 L_i = 0

The C_i and L_i values do not exceed those specified for the FISCO Model

16 **Report Number**

04(C)0013

17 **Special Conditions for Safe Use**

1. When the apparatus has an input power of 5.32W, the apparatus will be coded Ex II 1G EEx ia IIC T4 ($-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$)
2. Although all versions of the Surge Protection Device Type TP**-* meet the 500V test to the metal case, the electrical circuit will not be cable of meeting the 500V test to the green/yellow wire. This must be taken into consideration in any installation.

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

None