



1 **EC - TYPE EXAMINATION CERTIFICATE**

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

3 EC - Type Examination Certificate Number: **Baseefa03ATEX0721X**

4 Equipment or Protective System: **A Type TX6900 Junction Box**

5 Manufacturer: **T.E.L Engineering Limited trading as Trolex Engineering**

6 Address: **Stockport, Cheshire, SK7 5DA**

**UNCONTROLLED DOCUMENT
THIS DOCUMENT IS NOT
SUBJECT TO AMENDMENTS
T.E.L. ENGINEERING LIMITED**

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

8 Baseefa (2001) Ltd. Notified body number 1180, 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 No.03(CI)0994/1

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

EN50014: 1997 + Amendments 1 and 2 EN50018: 2000 + Amendment 1 EN50281-1-1: 1998

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 equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

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

⊕ II 2 G D EEx d IIB T85°C IP66

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

Baseefa (2001) Ltd. Customer Reference No. **1428**

Project File No. **03/0994**

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.

Baseefa (2001) Ltd.

Health and Safety Laboratory Site, Harpur Hill,
Buxton, Derbyshire SK17 9JN

Telephone +44 (0) 1298 28255 Fax +44 (0) 1298 28216

e-mail info@baseefa2001.biz web site www.baseefa2001.biz

Registered in England No. 4305578 at 13 Dovedale Crescent, Buxton,
Derbyshire, SK17 9BJ

R S SINCLAIR

DIRECTOR

On behalf of

Baseefa (2001) Ltd.



13

Schedule

14

Certificate Number Baseefa03ATEX0721X

15 Description of Equipment or Protective System

A Type TX6900 Junction Box rated up to 3300 V a.c., 70A per circuit with a maximum internal dissipation of 14W.

The unit comprises a T.E.L Engineering Type TX6901 Enclosure as certified under Component Certificate Baseefa03ATEX0718U, coded $\text{\textcircled{Ex}}$ II 2 G D EEx d IIB.

The cover is secured to the enclosure by 12 off M8 x 16 mm long socket head cap screws, grade A2-70 stainless steel.

The enclosure is provided with cable entries or for the attachment of plugs and/or sockets as indicated below.

Type	Certificate	Code
TX3700.P	BAS02ATEX2278U	$\text{\textcircled{Ex}}$ II 2 G EEx d IIB.
TX3700.S		
TX3701.P	BAS02ATEX2281U	
TX3701.S		

The interior of the enclosure comprises various combinations of baseplate mounted terminals types WDU, SAK,WFF, WDK manufactured by Weidmuller and type TX6940 terminals manufactured by Trolex Engineering.

To obviate the risk of hotspots associated with the Type TX6900 Junction Box the enclosure must not be opened when an explosive atmosphere is present. A label is fitted to each and every enclosure which states this information.

Internal and external earthing facilities are provided.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with suitable certified flameproof stopping plugs.

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.

16 Report Number

Baseefa Certification Report 03(CI)0994/1

17 Special Condition for Safe Use

- 1 When Type TX3700 or TX3701 plugs and sockets are fitted, the devices must be used in conjunction with the appropriate mating cable or stopping devices as defined within the certificates.
- 2 The plugs and sockets are limited to 20A per pin and a total current of 100A.
- 3 When used in an explosive dust atmosphere the cable entries must maintain the ingress protection (IP66) of the enclosure.

For terminals carrying intrinsically safe circuits:-

- 4.1 The voltage of each intrinsically safe circuit and between separate intrinsically safe circuits shall not exceed 60V.
- 4.2 The sum of the maximum peak voltages of intrinsically safe and non-intrinsically safe circuits shall not exceed 1575V.
- 4.3 Each intrinsically safe circuit shall be separately screened.

UNCONTROLLED DOCUMENT
THIS DOCUMENT IS NOT
SUBJECT TO AMENDMENTS

T.E.L. ENGINEERING LIMITED



18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

<u>Number</u>	<u>Issue</u>	<u>Date</u>	<u>Description</u>
1/6900/100	F	20.11.03	General Arrangement TX6900 Junction Box
3/6900/202	A	13.11.03	Terminal Details

**UNCONTROLLED DOCUMENT
THIS DOCUMENT IS NOT
SUBJECT TO AMENDMENTS**

T.E.L. ENGINEERING LIMITED



SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

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

3 Supplementary EC - Type Examination Certificate Number: **Baseefa03ATEX0721X/1**

4 Equipment or Protective System: **Type TX6900 Junction Box**

5 Manufacturer: **T.E.L Engineering Limited (Trading as Trolex Engineering)**

6 Address: **Newby Road, Hazel Grove, Stockport, Cheshire, SK7 5DA**

**UNCONTROLLED DOCUMENT
THIS DOCUMENT IS NOT
SUBJECT TO AMENDMENTS**

T.E.L. ENGINEERING LIMITED

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa03ATEX0721X 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, without any change, schedule included.



Baseefa Customer Reference No. **1428**

Project File No. **11/0135**

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

Baseefa

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail info@baseefa.com web site www.baseefa.com
Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.


R S SINCLAIR 
DIRECTOR
On behalf of
Baseefa



13

Schedule

14

Certificate Number Baseefa03ATEX0721X/1

15 Description of the variation to the Equipment or Protective System

UNCONTROLLED DOCUMENT
THIS DOCUMENT IS NOT
SUBJECT TO AMENDMENTS

T.E.L. ENGINEERING LIMITED

Variation 1.1

Minor changes to the drawing and the labelling.

The coding is amended to:-

⊕ II 2 GD Exd IIB Ex tD A21 IP66 T85°C

or

⊕ II 2 G Exd IIB IP66 T6

Variation 1.2

To confirm that the equipment covered by this certificate, as amended by the above changes, has been reviewed against the requirements of EN60079-0: 2006, EN60079-1: 2007, EN61241-0:2006 and EN61241-1:2004 in respect of the differences from the Standards to which this certificate was issued; none of these differences affect this equipment.

16 Report Number

Baseefa Certification Report 11(C)0135

17 Special Conditions for Safe Use

- 1 When Type TX 3700 Connectors or Type TX 3701 Connectors are fitted, the devices must be used in conjunction with the appropriate mating cable or stopping devices as defined within the certificates.
- 2 The plugs and sockets are limited to 20A per pin and a total current of 100A.
- 3 When a socket is not fitted with a plug or a blanking cover all the electrical circuits in the associated flameproof enclosure must be de-energized.
- 3 When used in an explosive dust atmosphere the cable entries must maintain the ingress protection (IP66) of the enclosure.

For terminals carrying intrinsically safe circuits:-

- 4.1 The voltage of each intrinsically safe circuit and between separate intrinsically safe circuits shall not exceed 60V.
- 4.2 The sum of the maximum peak voltages of intrinsically safe and non-intrinsically safe circuits shall not exceed 1575V.
- 4.3 Each intrinsically safe circuit shall be separately screened.

18 Essential Health and Safety Requirements

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

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
1/6900/250*	-	A	10 FEB 10	Approval Information

*This drawing is common to Baseefa03ATEX0718U/1 and Baseefa03ATEX0721X/1 and is held with the latter.