



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: Sira 00ATEX1112

4 Equipment: Titan XPB and XPBT Switch Range

5 Applicant: The Pyropress Engineering Company Ltd

6 Address: Bell Close  
Newnham Industrial Estate  
Plympton  
Plymouth  
Devon PL7 4JH  
UK

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

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number R51A6756A and R51A11351A.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 50014:1997 (Amendments A1 & A2)  
EN 50018:1994  
EN 50281-1-1:1998

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment 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. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2GD

EEx d IIB + H<sub>2</sub> <Tmax> (<T class>) Ta = -55°C to <Ta max>

The information from the tables in the certificate schedule that is appropriate to the power should be inserted within the the brackets < >

e.g. EEx d IIB + H<sub>2</sub> T85°C (T6) Ta = -55°C to 40°C at 20 W

Project Number 51A11351  
Date 19 October 2000  
Re-issued 11 May 2004  
C. Index 03

C Ellaby  
Certification Officer

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**Sira Certification Service**



**SCHEDULE**

**EC TYPE-EXAMINATION CERTIFICATE**

Sira 00ATEX1112

Re-issued 11 May 2004 to introduce the modifications described in report number R51A11518A.

**13 DESCRIPTION OF EQUIPMENT**

The Titan XPB and XPBT Switch Range is used to sense changes in temperature, pressure, level or flow via mechanical actuators. The XPB is fitted with mechanical actuators which sense changes in all the properties listed previously, whereas, the XPBT is fitted with a suitably certified transmitter (SCT) for pressure applications only. A generic two-chamber enclosure is utilised for all applications, this is manufactured in aluminium, LM25TF, or a metallic material that has a tensile strength greater than this alloy and a magnesium content less than 6% by weight. The lower chamber houses the operating rod and associated connection facilities for XPB applications and the SCT for XPBT applications. The operating rod assembly and SCT are screwed into a 1/2" BSF to form a threaded flamepath. The operating rod and bushing forms a cylindrical flamepath. The upper chamber contains the electrical connection facilities and PCB. The upper chamber has an access opening, which has a flange flamepath joint. The cable entry point can be fitted with a straight through adapter or 90° adapter. These adapters form a flange flamepath with the enclosure and a threaded flamepath with the suitably certified cable entry devices.

<b>Power</b>	20 W	15 W	10 W	5 W	2.5 W
<b>Ta Max</b>	40°C	50°C	60°C	70°C	75°C
<b>T max</b>	T 85°C	T 85°C	T 85°C	T 85°C	T 85°C
<b>T class</b>	T6	T6	T6	T6	T6

<b>Power</b>	27.5 W	22.5 W	17.5 W	12.5 W	10 W	2.5 W
<b>Ta Max</b>	40°C	50°C	60°C	70°C	75°C	90°C
<b>T max</b>	T 100°C	T 100°C	T 100°C	T 100°C	T 100°C	T 100°C
<b>T class</b>	T5	T5	T5	T5	T5	T5

**14 DESCRIPTIVE DOCUMENTS**

<b>Drawing No</b>	<b>Sheet</b>	<b>Rev</b>	<b>Date</b>	<b>Title</b>
A3-M-9449	1 of 1	D	11 May 04	Label Certification XPB
A1-M-9448	1 of 1	A	25 Jul 00	Certification GA XPB
A1-M-9451	1 of 1	A	31 Jul 00	Internal GA XPB Certification

14.2 Report No. R51A6756A and R51A11351A

**15 SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)

None

**16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in Report No. R51A6756A.

**17 CONDITIONS OF CERTIFICATION**

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

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