



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 11ATEX2161X** Issue: **0**

4 Equipment: **TEXI7800-Series I/P Transducer**

5 Applicant: **Fairchild Industrial Products Company**

6 Address: **3920 West Point Boulevard  
Winston-Salem  
North Carolina 27103  
USA**

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 the confidential reports listed in Section 14.2.

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 60079-0:2006 EN 60079-11:2007 EN 60079-26:2007 EN 61241-0:2006 EN 61241-11:2006

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 1 G D  
Ex ia IIB T4 Ga  
Ex iaD 20 T90°C Da  
Ta = -40°C to +80°C

Project Number 23964

C Ellaby  
Deputy Certification Officer

This certificate and its schedules may only be reproduced in its entirety and without change.



**SCHEDULE**

**EC TYPE-EXAMINATION CERTIFICATE**

Sira 11ATEX2161X  
Issue 0

**13 DESCRIPTION OF EQUIPMENT**

The TEXI7800-Series I/P Transducers are process control devices that convert a direct current or voltage input into a pressure output. The transducers have two sections, the Primary Converting Section and the Relay Section. The Primary Converting Section consists of the feedback/control electronics, electronic feedback sensor and nozzle. The Relay Section consists of the piezo-electric flapper, upper diaphragm and lower control diaphragm and is connected to a common supply that regulates the output pressure. The electronic circuits are mounted on two printed circuit boards which are interconnected via connection pins. The only devices approved for intrinsic safety are 2 wire 4-20 mA versions.

The TEXI7800-Series is certified for use with flammable and non-flammable process fluids. It is not certified for use when the process fluid is a fuel/air mixture within the flammable range.

The TEXI7800-Series has the following safety description:

Ui = 28 V                      li = 100 mA                      Pi = 0.7 W                      Ci = 0                      Li = 0

**14 DESCRIPTIVE DOCUMENTS**

**14.1 Drawings**

Refer to Certificate Annexe.

**14.2 Associated Sira Reports and Certificate History**

Issue	Date	Report number	Comment
0	23 August 2011	R23964A/00	The release of the prime certificate.

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

15.1 Aluminium, magnesium, titanium or zirconium may be used at the accessible surface of the equipment. In the event of rare incidents, ignition sources due to impact and friction sparks could occur. This shall be considered, particularly when the TEXI7800-Series I/P Transducers are being installed in locations that specifically require group II, level of protection Ga and Da.

**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 the reports listed in Section 14.2.

**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.

# Certificate Annexe

Certificate Number: Sira 11ATEX2161X  
Equipment: TEXI7800-Series I/P Transducer  
Applicant: Fairchild Industrial Products Company



## Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
044-IPI-096-01	1 of 1	E	23 Aug 11	Artwork & silkscreen, bottom board
044-IPI-098-01	1 of 1	H	23 Aug 11	Artwork & silkscreen, top board
330-IPI-010	1 of 1	M	23 Aug 11	Transformer
907-IPI-056	1 of 1	E	23 Aug 11	Schematic, top board
907-IPI-057	1 of 1	C	23 Aug 11	Schematic, bottom board
908-IPI-037	1 to 5	D	23 Aug 11	Control Drawing for Gerber file 044-IPI-096 PCB
908-IPI-038	1 to 6	G	23 Aug 11	Control Drawing for Gerber file 044-IPI-098 PCB
21110	1 of 1	E	23 Aug 11	ATEX nameplate
21167	1 of 1	A	23 Aug 11	General assembly
21169	1 of 1	E	23 Aug 11	Critical parts list – top and bottom boards
21178	1 of 1	D	23 Aug 11	Block diagram

This certificate and its schedules may only be reproduced in its entirety and without change.