



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 15ATEX2099X** Issue: **0**

4 Equipment: **T*EI6000-4xxxx 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 60079-0:2012/A11:2013 EN 60079-11:2012 EN 60079-26:2015

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

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:

Models: TAEI6000, TDEI6000, TREI6000, TTEI6000



II 1G
Ex ia IIC T4 Ga
Ta = -40°C to +70°C

Models: TAEI6000W, TDEI6000W, TJEI6000W



II 1GD
Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
Ta = -40°C to +70°C

Project Number 70012365

C Ellaby
Deputy Certification Manager

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

Sira Certification Service
Unit 6, Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

**Sira 15ATEX2099X
Issue 0**

13 DESCRIPTION OF EQUIPMENT

T*EI6000-4xxxx series I/P Transducer is an electro-pneumatic device that converts a DC input signal to a pneumatic output. The T*EI6000-4xxxx series I/P Transducer utilizes a current through the coil to create a magnetic field working against the stationary permanent magnetic field. The transducer comprises a coil assembly and printed circuit board, both housed in an aluminium alloy enclosure. External connections are by means of cable or DIN connector or terminal block. The transducer has the following safety description:

The device is supplied from an intrinsically safe 28V suitably certified zener barrier. The supply is clamped across coil by using Zener diodes.

The T*EI6000-4xxxx series reference is defined as follows:

* refers to the connection options:

- A = 1/2 NPT Conduit Fitting
- D = DIN 43650 Connector
- R = Rack Mount
- T = Terminal Strip
- J = Junction Box

xxxx refers to the output, thread and W options. W option means the apparatus will be used in dust atmosphere.

The equipment has the following entity parameters:

- Ui = 28 V
- Ii = 93 mA
- Pi = 0.65 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	22 June 2015	R70012365A	The release of the prime certificate.

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

15.1. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.

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

Sira Certification Service
Unit 6, Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom

Tel: +44 (0) 1244 670 900
Fax: +44 (0) 1244 539 301
Email: ukinfo@csagroup.org
Web: www.csagroupuk.org



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 15ATEX2099X
Issue 0

- 15.2. The enclosures are manufactured from of aluminium alloy. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during installation, particularly if the equipment is installed in a zone 0 location.
- 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 15ATEX2099X
Equipment: T*EI6000-4xxxx series I/P Transducer
Applicant: Fairchild Industrial Products Company



Issue 0

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Description
EB-16974	1 of 1	H	13 May 15	Schematic Diagram
EB-16973	1 of 1	W	13 May 15	Parts list and Printed Circuit Board Assembly
ED-19803	1 to 2	G	01 Jun 15	General Assembly TEI6000
20746	1 of 1	D	13 May 15	General Assembly T6000W *
EB-19804	1 of 1	F	13 May 15	Marking Drawing TEI6000 Series ATEX
EB18351-1	1 to 4	K	13 May 15	Printed Circuit Board Layout Drawings

* Only the T6000W models (TAEI6000W, TDEI6000W and TJEI6000W) have been assessed in this certificate. The T6100 series models are not within the scope of this certificate.

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