



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:  issue No.:  Certificate history:

Status:

Date of Issue: **2015-06-18** Page 1 of 3

Applicant: **Fairchild Industrial Products Company**  
3920 West Point Boulevard  
Winston-Salem  
North Carolina 27103  
**United States of America**

Electrical Apparatus: **T\*EI6000-4xxxx series I/P Transducer.**  
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Models: TAEI6000, TDEI6000, TREI6000, TTEI6000**  
Ex ia IIC T4 Ga  
Ta = -40°C to +70°C

**Models: TAEI6000W, TDEI6000W, TJEI6000W**  
Ex ia IIC T4 Ga  
Ex ia IIIC T135°C Da  
Ta = -40°C to +70°C

Approved for issue on behalf of the IECEx Certification Body: C Ellaby

Position: Deputy Certification Manager

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full
2. This certificate is not transferable and remains the property of the issuing body
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**SIRA Certification Service**  
CSA Group  
Unit 6, Hawarden Industrial Park  
Hawarden  
Deeside  
CH5 3US  
United Kingdom

**sira**  
CERTIFICATION





# IECEX Certificate of Conformity

Certificate No.: IECEX SIR 15.0043X

Date of Issue: 2015-06-18

Issue No.: 0

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Manufacturer: **Fairchild Industrial Products Company**  
3920 West Point Boulevard  
Winston-Salem  
North Carolina 27103  
**United States of America**

Additional Manufacturing location  
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-26 : 2014-10</b> Edition: 3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

##### Test Report:

[GB/SIR/ExTR15.0173/00](#)

##### Quality Assessment Report:

[GB/SIR/QAR09.0003/04](#)



# IECEX Certificate of Conformity

Certificate No.: IECEx SIR 15.0043X

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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows.*

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 = ½ 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

U<sub>i</sub> = 28 V I<sub>i</sub> = 93 mA P<sub>i</sub> = 0.65 W C<sub>i</sub> = 0 L<sub>i</sub> = 0

### CONDITIONS OF CERTIFICATION: YES as shown below:

The user/installer shall comply with the following

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.
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.