

# CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM16US0105X
3. **Equipment:** YT-940 Electro-Pneumatic Converter  
**(Type Reference and Name)**
4. **Name of Listing Company:** Young Tech Co Ltd
5. **Address of Listing Company:** 3022 Haggun-ri, Yangchon-Myeon, Gimpo-si  
Gyeonggi-do  
Republic of Korea
6. The examination and test results are recorded in confidential report number:  
  
3056545 dated 8<sup>th</sup> June 2016
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:  
  
FM Class 3600:2011, FM Class 3615:2006, FM Class 3616:2011, FM Class 3810:2005,  
ANSI/ISA 60079-0:2013, ANSI/ISA 60079-1:2013, ANSI/ISA 60079-31: 2015, ANSI/NEMA 250:1991,  
ANSI/IEC 60529:2004
8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

**Certificate issued by:**

J.E. Marquedant  
Manager, Electrical Systems

8 June 2016

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

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# SCHEDULE



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## 10. Equipment Ratings:

Explosionproof for Class I, Division 1, Groups A, B, C and D; Flameproof for Class I, Zone 1, AEx db IIC T6/T5; Dust-ignitionproof for Class II/III, Division 1, Groups E, F and G; and Protection by Enclosure for Zone 21 AEx tb IIIC T85°C/ T100°C Hazardous (Classified) Locations, indoors and outdoors (Type 4X, IP66) with an ambient temperature rating of T6/T85°C Ta = -40°C\* to +75°C, T5/ T100°C Ta = -40°C to +85°C.

## 11. The marking of the equipment shall include:

Class I Division 1, Groups A, B, C, D; T6 Ta = -40°C\* to +75°C, T5 Ta = -40°C to +85°C; Type 4X, IP66

Class II,III Division 1, Groups E, F, G; T6 Ta = -40°C\* to +75°C, T5 Ta = -40°C to +85°C; Type 4X, IP66

Class I, Zone 1, AEx d IIC T6 Ta = -40°C\* to +75°C, T5 Ta = -40°C to +85°C, Type 4X, IP66

Zone 21 AEx tb IIIC T85°C Ta = -40°C to +75°C, T100°C Ta = -40°C to +85°C, Type 4X, IP66

## 12. Description of Equipment:

**General** - The YT-940 Series Electro-Pneumatic Converter receives DC 4~20mA signal from the control room and outputs 0.02 ~ 0.1 MPa signal to pneumatic-pneumatic positioner to operate a control valve system.

**Construction** - The enclosure consists of a flameproof housing with electronics and a pneumatic unit with a pressure sensor inside. The process medium is allowable for the use of Group D gas at a pressure not exceeding 35 PSI (2.4 Bar). In the event of use for Group D gas as the process medium, the gas must be compatible with the wetted parts of the pneumatic converter.

**Ratings** - The YT-940 Series Electro-Pneumatic Converter operates at 9-28 Vdc. The converter is rated for use in an ambient temperature ranges T6 Ta = -40°C\* to +75°C and T5 Ta = -40°C to +85°C.

### **YT-940 abcdef. Electro-Pneumatic Converter**

a= Explosionproof: C

b= Output Pressure: 1, 2, 3 or 4

c= Connection Type: 1 or 2

d= Ambient Temperature: S or L

e= Option: 0 or 1

f= Gauge: 0, 1 or 2

## 13. Specific Conditions of Use:

1. A seal fitting is required at the enclosure.

### 2 Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

### 3 Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

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# SCHEDULE



Member of the FM Global Group

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## 4 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
8 <sup>th</sup> June 2016	Original Issue.

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