



# 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.: IECEX EPS 15.0059X

Issue No: 1

Certificate history:

Status: **Current**

Issue No. 1 (2019-02-01)

Issue No. 0 (2016-02-26)

Date of Issue: **2019-02-01**

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Applicant: **Rotork YTC Limited**  
81, Hwanggeum-ro 89 beon-gil, Yangchon-eup,  
Gimpo-si, Gyeonggi-do,  
**Korea, Republic of**

Equipment: **I/P Converter YT-930**

Optional accessory:

Type of Protection: **intrinsic safety**

Marking:  
Ex ia IIC T5/T6 Gb  
Ex ia III C T100°C/T85°C Db

Approved for issue on behalf of the IECEX  
Certification Body:

Holger Schaffer

Position:

Manager Certification

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://Official IECEX Website).

Certificate issued by:

**Bureau Veritas Consumer Products Services Germany GmbH**  
Businesspark A96  
86842 Türkheim  
Germany





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Manufacturer: **Rotork YTC Limited**  
81, Hwanggeum-ro 89 beon-gil, Yangchon-eup,  
Gimpo-si, Gyeonggi-do,  
**Korea, Republic of**

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 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:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

*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:

[DE/EPS/ExTR15.0059/00](#)

[DE/EPS/ExTR15.0059/01](#)

#### Quality Assessment Report:

[DE/EPS/QAR11.0002/08](#)



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## Schedule

### EQUIPMENT:

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

The YT-930 is a current/pressure converter which receives a 4-20 mA DC signal from the control room and outputs a 0.02-0.1 Mpa signal to a pneumatic-pneumatic positioner to operate a control valve system.

### Electrical data:

Input signal circuit:

$U_i = 28 \text{ V}$

$I_i = 93 \text{ mA}$

$P_i = 650 \text{ mW}$ , linear characteristic

$C_i = \text{negligible}$

$L_i = \text{negligible}$

The input signal circuit is galvanically separated against the enclosure.

Supply circuit PTM:

$U_i = 28 \text{ V}$

$I_i = 93 \text{ mA}$

$P_i = 650 \text{ mW}$ , linear characteristic

$C_i = 0.6 \text{ nF}$  differentially between the lines and  $2.2 \text{ nF}$  against the enclosure

$L_i = 300 \text{ }\mu\text{H}$

The PTM circuit is galvanically separated against the enclosure.

### **SPECIFIC CONDITIONS OF USE: YES as shown below:**

The ambient temperature range deviates from the standard temperature range:

Temperature class T5:  $-40 \text{ }^\circ\text{C}$  to  $+60 \text{ }^\circ\text{C}$

Temperature class T6:  $-40 \text{ }^\circ\text{C}$  to  $+40 \text{ }^\circ\text{C}$



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Rev. 1: Company name change