



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

Certificate No.: IECEx EPS 15.0059X Issue No: 0 Certificate history:
Issue No. 0 (2016-02-26)

Status: Current Page 1 of 3

Date of Issue: 2016-02-26

Applicant: Young Tech Co., Ltd
81, Hwanggeum-ro 89 beon-gil, Yangchon-eup,
Gimpo-si, Gyeonggi-do,
Korea 415-843
Korea, Republic of

Electrical Apparatus: I/P Converter YT-930
Optional accessory:

Type of Protection: intrinsic safety

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

Approved for issue on behalf of the IECEx
Certification Body:

Dieter Zitzmann

Position:

Manager Certification

Signature:
(for printed version)



Date:

2016-02-26

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:

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





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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:

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](#)

Quality Assessment Report:

[DE/EPS/QAR11.0002/04](#)



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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 nF against the enclosure

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

The PTM circuit is galvanically separated against the enclosure.

CONDITIONS OF CERTIFICATION: 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 $+40 \text{ }^\circ\text{C}$