

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 12.0015X	issue No.:1	Certificate history:	
Status:	Current		Issue No. 1 (2012-11- 23) Issue No. 0 (2012-6-27)	
Date of Issue:	2012-11-23	Page 1 of 4		
Applicant:	Young Tech Co., Ltd #3022, Hagun-ri, Yangchor Korea, Republic of	n-myeon, Gimpo-si, Gyeonggi-do, Ko	orea	
Electrical Apparatus: Optional accessory:	YT-2300			
Type of Protection:	Ex ia			
Marking:	Ex ia IIC T5/T6 Gb Ex iaD IIIC T100°C/T85°C Db IP6X			
Approved for issue on beh Certification Body:	nalf of the IECEx	Achim Hänchen		
Position:		Head of 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.				
Certificate issued by:				

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





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Manufacturer: Young Tech Co., Ltd

#3022, Hagun-ri, Yangchon-myeon, Gimpo-si, Gyeonggi-do, Korea

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 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: 2007-10 Explosive atmospheres - Part 0: Equipment - General requirements

Edition: 5

IEC 60079-11: 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition: 5

IEC 61241-11: 2005 Electrical apparatus for use in the presence of combustible dusts - Part 11: Protection by

Edition: 1 intrinsic safety 'iD'

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/ExTR12.0021/00 DE/EPS/ExTR12.0021/01

Quality Assessment Report:

DE/EPS/QAR11.0002/00 DE/EPS/QAR11.0002/01



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The YT-2300 is an electro pneumatic positioner to control linear and rotary valves. The pressure is regulated by a piezoelectric valve and the position of the pneumatic valve is measured by a poten-tiometer.

The YT-2300 has as an option a superimposed HART signal. Additionally the PTM module as an-other option serves as feedback for the position of the valve. All circuits are supplied by intrinsically safe power supplies with linear characteristic. The different intrinsically safe circuits are galvanically isolated against each other and against ground.

Electrical data:

Supply circuit: Type of protection Intrinsic Safety Ex ia IIC/IIB maximum values:

Ui = 28 V

li = 93 mA

Pi = 651 mW

Linear characteristic

Ci = 0.6 nF differentially between the lines or 2.2 nF against ground

 $Li = 300 \mu H$

The supply circuit is galvanically isolated against earth.

Option circuit "PTM": Type of protection Intrinsic safety Ex ia IIC/IIB maximum values:

Ui = 28 V

li = 93 mA

Pi = 651 mW

Linear characteristic

Ci = 0.6 nF differentially between the lines or 2.2 nF against ground

 $Li = 300 \mu H$

The PTM circuit is galvanically isolated against earth.

CONDITIONS OF CERTIFICATION: YES as shown below:

The ambient temperature range deviates from the standard temperature range and amounts to:

Temperature class T5/100°C: -40 °C to +60 °C

Temperature class T6/T85°C: -40 °C to +40 °C.

Impact testing on light transmitting parts was carried out with low impact energy. Applications with a risk of high impact energy are to be avoided.



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