

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 11.0009X	issue No.:0	Certificate history:	
Status:	Current			
Date of Issue:	2011-11-18	Page 1 of 4		
Applicant:	Young Tech Co., Ltd #3022, Hagun-ri, Yangchon-r Korea, Republic of	nyeon, Gimpo-si, Gyeonggi-do	Korea	
Electrical Apparatus: Optional accessory:	Smart Positioner, Type YT2	2500/2550, YT2500+LS(dry co	ntact)/YT2550+LS(dry contact)	
Type of Protection:	intrinsically safe			
Marking:	Ex ia IIC T5/T6 Gb Ex iaD IIIC T85°C/T100°C Di	b IP6X		
Approved for issue on be Certification Body:	half of the IECEx			
Position:				
Signature: (for printed version)				
Date:				
 This certificate and schedule may only be reproduced in full. This certificate is not transferable and remains the property of the issuing body. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website. 				
Certificate issued by:				
Duranu Varitas Cana		manu Crahll		

Businesspark A96 86842 Türkheim Germany



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Young Tech Co., Ltd Manufacturer:

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

Korea, Republic of

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

Edition: 5

IEC 61241-11: 2005

Edition: 1

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

Electrical apparatus for use in the pressence of combustible dusts - Part 11: Protection by 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/ExTR11.0002/01

Quality Assessment Report:

DE/EPS/QAR11.0002/00



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The YT2500/2550 and YT2500+LS(dry contact)/YT2550+LS(dry contact) is an electropneumatic positioner to control linear and rotary valves. The pressure is regulated by a piezo valve and the position of the pneumatic valve is measured by a potentiometer. The YT2500/2550 and YT2500+LS(dry contact)/YT2550+LS(dry contact) has as an option a superimposed HART signal. Additionally the PTM module serves as feedback for the position of the valve. Two optional limit switches (contacts) can be built in. 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 (versions YT2500/2550 and YT2500+LS(dry contact)/YT2550+LS(dry contact)) type of protection Intrinsic Safety Ex ia IIC/IIB maximum values:

Ui = 28 V

li = 47 mA

Pi = 329 mW

Linear characteristic

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

Li = 30 µF

The supply circuit is galvanically isolated against earth.

Option circuit "PTM" (versions YT2500/2550 and YT2500+LS(dry contact)/ YT2550+LS(dry contact)); type of protection Intrinsic safety Ex ia IIC/IIB maximum values:

. Ui = 28 V

li = 47 mA

Pi = 329 mW

Linear characteristic

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

Li = 300 μH

The PTM circuit is galvanically isolated against earth.

Option circuits "Limit switches 1 and 2" (only version YT2500+LS(dry contact)/ YT2550+LS(dry contact)); type of protection Intrinsic Safety Ex ia IIC/IIB maximum values:

Ui = 28 V

li = 93 mA

Pi = 650 mW

Linear characteristic

Ci = 0 nF

 $Li = 0 \mu H$

The limit switch circuits are galvanically isolated against earth. All circuits are galvanically isolated against each other.

CONDITIONS OF CERTIFICATION: YES as shown below:

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

Temperature class T5 and dust: -40 °C to +60 °C Temperature class T6: -40 °C to +40 °C -40 °C to +40 °C

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



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Additional information:

none