

#### 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.:2	Certificate history: Issue No. 2 (2012-11-		
Status:	Current		23) Issue No. 1 (2012-6-13) Issue No. 0 (2011-11-		
Date of Issue:	2012-11-23	Page 1 of 6	18)		
Applicant:	Young Tech Co., Ltd #3022, Hagun-ri, Yangchon-myeon, Gimpo-si, Gyeonggi-do, Korea Korea, Republic of				
Electrical Apparatus: Optional accessory:	Smart Positioner, Type Y (dry contact)	T-2500/2550/YT-2501, YT-2500+	LS(dry contact)/YT-2550+LS		
Type of Protection:	intrinsically safe				
Marking:	Ex ia IIC T5/T6 Gb Ex iaD IIIC T100°C/T85°C Db IP6X				
Approved for issue on bel Certification Body:	half of the IECEx	Achim Hänchen			
Position:		Head of certification			
Signature: (for printed version)					
Date:					
2. This certificate is not tra	edule may only be reproduce ansferable and remains the p licity of this certificate may be	ed in full. roperty of the issuing body. e verified by visiting the Official IE	CEx Website.		
Certificate issued by:					
Bureau Veritas Consumer Products Services Germany GmbH Businesspark A96 86842 Türkheim Germany UREAU VERITAS					

		Certificate nformity		
Certificate No .:	IECEx EPS 11.0009X			
Date of Issue:	2012-11-23	Issue No.: 2		
		Page 2 of 6		
Manufacturer:	Young Tech Co., Ltd #3022, Hagun-ri, Yangchon-myeon, Gimpo-si, Gyeonggi-do, Korea Korea, Republic of			
Additional Manufacturing I	ocation(s):			
found to comply with the II covered by this certificate,	EC Standard list below and that the manufact was assessed and found to comply with the	of production, was assessed and tested and turer's quality system, relating to the Ex products IECEx Quality system requirements. This me Rules, IECEx 02 and Operational Document		
	nd any acceptable variations to it specified in comply with the following standards:	the schedule of this certificate and the identified		
<b>IEC 60079-0 : 2007-10</b> Edition: 5	Explosive atmospheres - Part 0:Equipment - General requirements			
<b>IEC 60079-11 : 2006</b> Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"			
IEC 61241-11 : 2005 Edition: 1	Electrical apparatus for use in the presence of combustible dusts - Part 11: Protection by intrinsic safety 'iD'			
This Certificate <b>does n</b>	<b>ot</b> indicate compliance with electrical safety a expressly included in the Standard	and performance requirements other than those s listed above.		
TEST & ASSESSMENT R A sample(s) of the equipm	<b>REPORTS:</b> nent listed has successfully met the examinat	ion and test requirements as recorded in		
<u>Test Report:</u> DE/EPS/ExTR11.0011/00	DE/EPS/ExTR11.0011/01	DE/EPS/ExTR11.0011/02		
Quality Assessment Repo	<u>rt:</u>			
DE/EPS/QAR11.0002/00	DE/EPS/G	DE/EPS/QAR11.0002/01		



Certificate No.:	IECEx EPS 11.0009X	
Date of Issue:	2012-11-23	Issue No.: 2
		Page 3 of 6
	Schedule	
EQUIPMENT: Equipment and systems co	overed by this certificate are as follows:	
to control linear and rota pneumatic valve is meas 2550+LS(dry contact) ha feedback for the position supplied by intrinsically s galvanically isolated aga Expanded Eletrical data: Supply circuit (versions YT	ary valves. The pressure is regulated by sured by a potentiometer. The YT-2500 as as an option a superimposed HART n of the valve. Two optional limit switch safe power supplies with linear charact ainst each other and against ground.	0/2550 and YT-2500+LS(dry contact)/YT- signal. Additionally the PTM module serves as es (contacts) can be built in. All circuits are eristic. The different intrinsically safe circuits are
CONDITIONS OF CERTIF	ICATION: YES as shown below:	
Temperature class T5 / <sup>-</sup> Temperature class T6 / <sup>-</sup> Impact testing on light tra	e range deviates from standard temper T100°C: -40 °C to +60 °C T85°C: -40 °C to +40 °C ansmitting part was carried out with lov h impact energies are to be avoided.	rature range and amounts: w impact energy. Applications with a high risk of



Certificate No .: IECEx EPS 11.0009X Date of Issue: 2012-11-23 Issue No.: 2 Page 4 of 6 **EQUIPMENT(continued):** Linear characteristic Ci = 0.6 nF differentially between the lines or 2.2 nF against ground Li = 300 µH The supply circuit is galvanically isolated against earth. Option circuit "PTM" (versions YT-2500/2550/2501 and YT-2500+LS(dry contact)/YT-2550+LS(dry contact)); 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 µH The PTM circuit is galvanically isolated against earth. YT-2501 The version YT-2501 equipped with an external potentiometer as position sensor has been added. The isolation voltage is 500 V. Only the original units "Linear Feedback Module" and "Rotary Feedback Module", manufactured by the company Youngtech may be connected via the "Cable Connector". Maximum supply values for the potentiometer: Uo = 6,51 V lo = 93 mA lo wiper = 6 mA Po = 0,465 W Ci = 13 µF Li ~ 0 µH Trapezoidal characteristic



Certificate No.: Date of Issue: IECEx EPS 11.0009X

2012-11-23

Issue No.: 2

Page 5 of 6

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

Formal corrections



Certificate No.:

IECEx EPS 11.0009X

Date of Issue:

2012-11-23

Issue No.: 2

Page 6 of 6

#### Additional information:

none