IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx BAS 13.0117X**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 2	Issue 1 (2015-04-22) Issue 0 (2014-02-27)
Date of Issue:	2019-11-21		
Applicant:	**Kinetrol Limited** Trading Estate Farnham Surrey GU9 9NU **United Kingdom**		
Equipment:	**EL Electropneumatic Positioner**		
Optional accessory:			
Type of Protection:	**Intrinsic Safety**		
Marking:	**Ex ia IIC T4 Ga** **-20°C ≤ Ta ≤ +70°C**		

Approved for issue on behalf of the IECEx Certification Body: **R S Sinclair**

Position: **Technical Manager**

Signature: (for printed version)

Date: 21-11-19

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 www.iecex.com or use of this QR Code.

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom

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Certificate No.: **IECEx BAS 13.0117X**

Date of issue: 2019-11-21

Issue No: 2

Manufacturer: **Kinetrol Limited**
Trading Estate
Farnham
Surrey
GU9 9NU
United Kingdom

Additional manufacturing locations:

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 equipment 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 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 Reports:

GB/BAS/ExTR13.0251/00 GB/BAS/ExTR15.0097/00 GB/BAS/ExTR19.0317/00

Quality Assessment Report:

GB/SIR/QAR07.0011/07

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The EL Electropneumatic Positioner is designed to drive a rotary or linear actuator to a position set by a 4 – 20 mA input signal and hold it there until the input signal changes. The enclosure may be zinc alloy or aluminium alloy which introduces a specific condition of use.

The apparatus comprises a microprocessor based digital positioner circuit which controls a servo valve according to the 4 – 20 mA input signal and an optional angle retransmit circuit which provides a linear 4-20mA feedback signal which is electrically isolated from the positioner signal loop. The circuits are mounted on two PCBs which are located inside the positioner enclosure together with the position feedback potentiometer and the servo valve. There are also two optional limit switches (either micro-switches or Pepperl & Fuchs NJ 2-V3-N Type 1 inductive proximity switches to Certificate No. PTB00ATEX2032X) which form two separate intrinsically safe circuits which are electrically isolated from the input and feedback signals.

External electrical connections are made via separate terminal blocks inside the positioner enclosure.

Input Parameters - see Annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The EL Positioner enclosure may be made from aluminium alloy and given a protective epoxy paint finish; however, care should be taken to protect it from impact or abrasion if located in a zone 0 area.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Minor changes to the label and an alternative enclosure material which has introduced a specific condition of use.

ExTR: **GB/BAS/ExTR19.0317/00**	File Reference: **19/0569**

Annex:

IECEx BAS 13.0117 Annex Issue 1.pdf

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Input parameters:

4 - 20mA Signal:

U_i	=	28V	C_i	=	0	or	U_i	=	25.2V	C_i	= 0
I_i	=	93.3mA	L_i	=	0		I_i	=	100mA	L_i	= 0
P_i	=	0.653W					P_i	=	0.63W		

Angle Retransmit circuit:

U_i	=	28V	C_i	=	0	or	U_i	=	25.2V	C_i	= 0
I_i	=	93.3mA	L_i	=	0		I_i	=	100mA	L_i	= 0
P_i	=	0.653W					P_i	=	0.63W		

Limit Switches (micro-switches):

U_i	=	28V	C_i	=	0
I_i	=	93.3mA	L_i	=	0
P_i	=	0.653W			

Limit Switches (Pepperl & Fuchs NJ 2-V3-N Inductive Proximity switches to Certificate No. PTB00ATEX2032X)

U_i	=	16V	C_i	=	40nF
I_i	=	25mA	L_i	=	50µH
P_i	=	64mW			