



EC - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

- 3 EC - Type Examination Certificate **Baseefa02ATEX0197**
Number :
- 4 Equipment or protective system: **AP POSITIONER**
- 5 Manufacturer : **KINETROL LIMITED**
- 6 Address : **Trading Estate, Farnham, Surrey, GU9 9NU, England**
- 7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 8 Baseefa (2001) Ltd. Notified body number 1180 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential Report No. **02(C)0173**
- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN50014:1997 + Amendments 1 & 2 EN50020:2002 EN50284:1999
except in respect of those requirements listed at item 18 of the Schedule.
- 10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions of safe use specified in the schedule to this certificate.
- 11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.
- 12 The marking of the equipment or protective system shall include the following :

 **II 1 G 90°C EEx ia IIC T4 (-20°C ≤ Ta ≤ +80°C)**

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa (2001) Ltd. Customer Reference No. **0622**

Project File No. **02/0173**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa (2001) Ltd.

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R S SINCLAIR

DIRECTOR
On behalf of
Baseefa (2001) Ltd.

Re-issued 29th May 2003

Schedule

15 Description of Equipment or Protective System

The AP Positioner is designed to drive a rotary or linear actuator to a position set by a compressed air input signal and hold it there until the input signal changes. An option is for the AP Positioner to be supplied with Angle Retransmit, this is provided by a potentiometer that is mechanically connected to the actuator interface, and electrically connected to the angle retransmit circuit.

This circuit provides a linear 4-20mA feedback signal and is externally powered. The circuit is mounted on a PCB which is itself located inside the positioner enclosure. The PCB is protected by means of a plastic cover. External electrical connections are made via a terminal block inside the AP Positioner.

This certificate covers the AP Positioner when supplied in the following build arrangements:

- The Angle Retransmit circuit is an option.
- Switch-box fitted (with either micro-switches or Pepperl & Fuchs NJ 2-V3-N Type 1 inductive proximity switches).
- One of three different flow-rate options (standard, medium and high).
- Either Kinetrol or NAMUR Discrete builds.
- Mounted directly on a Kinetrol actuator.
- The O-ring may be either NBR or Viton.

Input parameters

Angle Retransmit circuit:

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

Switch-box (micro-switches):

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

Switch-box (Pepperl & Fuchs NJ 2-V3-N Type 1 inductive proximity switches to Certificate No. PTB00ATEX2032X)

U_i	=	16V	C_i	=	40nF
I_i	=	25mA	L_i	=	50μH
P_i	=	34mW			

16 Report No.

02(C)0173

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

None additional to those covered by the standards listed at item 9



19 Drawings and Documents

<u>Number</u>	<u>Sheets</u>	<u>Issue</u>	<u>Date</u>	<u>Description</u>
304-000-001/A1	1	D	29-04-03	General Assembly
304-000-024/A3	1	A	11-06-99	Angle retransmit assembly
304-000-029/A1	1	B	05-05-00	Assembly Positioner High Flow
304-000-060/A3	1	A	19-11-99	Lid assembly with limit switch box
304-000-070/A4	1	C	15-03-01	Position transmitter for pneumatic positioner
304-066-001/A3	1	D	06-02-03	Angle retransmit for positioner
304-066/A3	1	D	09-12-02	PCB for angle retransmit circuit for AP Pneumatic Positioner IS Version
304-103/A3	1	D	28-04-03	Serial number label (Ex Approved)
52-000-045/A2	1	W	20-10-98	GA of -004 Limit Switch Unit
52-000-300/A2	1	H	14-10-96	GA of -001, -005 & -006 Limit Switch Unit
TD119 Page 15	1	A	10-94	Limit switch wiring diagram
TD119 Page 16	1	A	10-94	Inductive proximity switch wiring diagram



SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

**Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

- 3 Supplementary EC - Type Examination Certificate Number: **Baseefa02ATEX0197/1**
- 4 Equipment or Protective System: **AP Positioner**
- 5 Manufacturer: **Kinetrol Limited**
- 6 Address: **Trading Estate, Farnham, Surrey, GU9 9NU**
- 7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa02ATEX0197 to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0622**

Project File No. **06/0117**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

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Baseefa is a trading name of Baseefa (2001) Ltd
Registered in England No. 4305578 at the above address

R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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Schedule

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Certificate Number Baseefa02ATEX0197/1

15 Description of the variation to the Equipment or Protective System

Variation 1.1

To permit:

- minor schematic changes
- addition of the Clear Cone Monitor
- addition of the -009 Limit Switch Unit

16 Report Number

None

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
304-000-001/A1	1 of 1	E	01-02-05	General Assembly
304-000-070/A4	1 of 1	D	10-01-06	Position Transmitter for Pneumatic Positioner
304-066-001/A3	1 of 1	E	10-01-06	Angle Retransmit for Positioner
52-000-045/A2	1 of 1	X	06-02-06	General Assembly, -004 & -009 Limit Switch Unit



SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

- Supplementary EC - Type Examination Certificate Number: **Baseefa02ATEX0197/2**
- Equipment or Protective System: **AP Positioner**
- Manufacturer: **Kinetrol Limited**
- Address: **Trading Estate, Farnham, Surrey, GU9 9NU**
- This supplementary certificate extends EC – Type Examination Certificate No. Baseefa02ATEX0197 to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.
- Item 9 of the original Certificate is replaced by "Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 60079-0:2009 EN 60079-11:2007 EN 13463-1:2009**
- except in respect of those requirements listed at item 18 of the Schedule."
- The marking of the equipment has changed from the original Certificate and shall include the following:
- ⊕ II 1 G Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +80°C)
- ⊕ II 1 G IIC T4 c (-20°C ≤ Ta ≤ +80°C)

This certificate shall be held with the original certificate and may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **0622**

Project File No. **11/0744**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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Registered in England No. 4305578. Registered address as above.


P. S. SINCLAIR
DIRECTOR
On behalf of
Baseefa



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Schedule

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Certificate Number Baseefa02ATEX0197/2

15

Description of the variation to the Equipment or Protective System

Variation 2.1

To permit minor drawing changes that do not affect the original assessment.

Variation 2.2

To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN 60079-0:2009, EN 60079-11:2007 & EN 13463-1:2009 in respect of the differences from EN 50014:1997 + Amds 1 & 2, EN 50020:2002 & EN 13463-1:2001 and that none of these differences affect this equipment.

The marking has been updated to:

⊕ II 1 G Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +80°C)

⊕ II 1 G IIC T4 c (-20°C ≤ Ta ≤ +80°C)

16

Report Number

None.

17

Specific Conditions of Use

None.

18

Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19

Drawings and Documents

Number	Sheet	Issue	Date	Description
304-066-001/A3	1 of 1	F	27.07.11	Angle Retransmit for Positioner
304-103/A3	1 of 1	E	13.06.11	Serial Number Label (Ex Approved)