

(1) EC-TYPE EXAMINATION CERTIFICATE

(2) Equipment or protective system intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) EC-Type Examination Certificate Number: **KEMA 03ATEX1195**

(4) Equipment or protective system:
Electro-pneumatic Valve Positioner Model YT-1000 . . m .

(5) Manufacturer: **Young Tech Co., Ltd.**

(6) Address: **662-8, Pungmu-Dong, Kimpo-city, Kyunggi-Do, Korea**

(7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) KEMA Quality B.V., notified body number 0344 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. 2029573.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014 : 1997

EN 50018 : 2000

EN 50028 : 1987

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment or protective system according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:



II 2 G EEx md IIB T5

Arnhem, 16 October 2003
KEMA Quality B.V.



C.G. van Es
Certification Manager

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SCHEDULE

to EC-Type Examination Certificate KEMA 03ATEX1195

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(15) **Description**

The Electro-pneumatic Valve Positioner Model YT-1000 ... m . is used to control actuators in process control applications.

Ambient temperature range: -20 °C ... +60 °C.

Electrical data

Supply current 4 – 20 mA

Installation instructions

The cable and conduit entry devices and the blanking elements shall be certified in type of explosion protection EEx d, suitable for the conditions of use and correctly installed.

With the use of conduit, a sealing device such as a stopping box with setting compound shall be provided immediately at the entrance of the flameproof enclosure.

For external earthing and bonding connection a cable lug shall be used so that the conductor is secured against loosening and twisting and that the contact pressure is maintained.

The electro-pneumatic valve positioners are designed to be connected to an external source of supply with a maximum prospective short circuit current of 300 A.

The apparatus must be protected by a suitable fuse. The breaking capacity of the fuse must be in accordance with the prospective short circuit current of the supply.

Routine tests

Routine tests according to Clause 16.1 of EN 50018 are not required since the type test has been made at a static pressure of four times the reference pressure.

The following routine tests of EN 50028 must be carried out on the encapsulated part of the valve positioner:

- The apparatus shall be subjected to a visual inspection according to clause 7.1. No visible damage shall be evident.
- According clause 7.2 an electrical strength test shall be carried out between the supply terminals and ground terminal with a voltage of 1500 Vac, during 1 minute. No flashover or breakdown may occur during the test.
- The electrical data of the apparatus shall be checked by measurement of voltage, current and active power according to clause 7.3.

(16) **Report**

KEMA No. 2029573.

(17) **Special conditions for safe use**

None

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

SCHEDULE

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to EC-Type Examination Certificate KEMA 03ATEX1195

(19) **Test documentation**

1. EC-Type Examination Certificate KEMA No. Ex-01.E.1110

dated

2. Drawing No. 1000203, rev. 3	07.03.2003
1000204, rev. 4	29.07.2003
1000205, rev. 2	07.03.2003
1000207, rev. 1	19.12.2002
1010201, rev. 0	31.05.1996
1010202, rev. 3	19.12.2002
1010205, rev. 0	31.05.1996
1010206, rev. 2	19.12.2002
1010216, rev. 3	29.07.2003
1010217, rev. 2	15.06.2001
1010222, rev. 3	06.03.2003
1010236, rev. 1	19.12.2002
1010240, rev. 1	15.06.2001
1010302-L, rev. 0	31.05.1998
1010302-R, rev. 0	12.01.1998
1020230, rev. 3	28.07.2003
1020231, rev. 2	19.12.2002
1020232, rev. 2	19.12.2002
1020301-A, rev. 1	15.06.2001
1020301-1, rev. 1	03.01.2001