

CERTIFICATE

(1) EC-Type Examination

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: DEKRA 11ATEX0092 X Issue Number: 1

(4) Equipment: Actuator Control Module, Series FieldQ QC41..., QC42... and QC43...

(5) Manufacturer: Emerson Machinery Equipment (Shenzhen) Co. Ltd

(6) Address: North Hong Lang 2nd Road, Bao'an District #68, Shenzhen, China, 518101

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

(8) DEKRA Certification 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 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 test report number NL/DEK/ExTR11.0035/xx.

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

EN 60079-0 : 2009

EN 60079-1 : 2007

EN 60079-31 : 2009

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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



II 2 G Ex db IIB+H₂ T6 or T4
II 2 D Ex tb IIIC T80°C IP66

This certificate is issued on 1 February 2012 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

C.G. van Es
Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate DEKRA 11ATEX0092 X**

Issue No. 1

(15) **Description**

The Actuator Control Module, Series FieldQ QC41..., QC42... and QC43... is used to control an actuator to its open or closed position and is intended to be mounted to a FieldQ valve actuator. The position feedback is achieved by switches. The control module has a degree of protection IP66 when mounted to a FieldQ valve actuator with minimum IP66.

Ambient temperature range -30 °C to +60 °C.

Type designation

QC42 . U P5 H S A 1
 I II III IV V VI VII

Designation	Explanation	Value	Explanation
I	Control Module	QC41 QC42 QC43	24 VDC Integrated XP Control modules 115 VAC Integrated XP Control modules 230 VAC Integrated XP Control modules
II	Conduit connections	M U	Metric NPT/UNC
III	Protection Method	P5	Flame Proof Ex d or Explosion proof approval
IV	Control module options	M G O C N H	Mechanical switch (250 Vac / 250 Vdc) Mechanical switch gold plated (125 Vac / 30 Vdc) 3-wire proximity switch PNP (10 – 30 Vdc) 3-wire proximity switch NPN (10 – 30 Vdc) 2-wire proximity switch (NAMUR) (8 Vdc) 2-wire proximity switch (230 Vac)
V	Action	S D F	Single acting Double acting Double acting Fail In Last Position
VI	Future Expansions Code	A	Standard
VII	Language Code	1	English, German, French & Spanish

Electrical data

Rated voltage control module: 24 Vdc, 115 Vac or 230 Vac.

Installation instructions

The instructions provided with the equipment shall be followed in detail to assure safe operation.

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate DEKRA 11ATEX0092 X** Issue No. 1

(16) **Test Report**

No. NL/DEK/ExTR11.0035/xx.

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

The manufacturer shall be contacted for information on the dimensions of the flameproof joints.

Precaution shall be taken to avoid danger of ignition due to electrostatic charges on the marking plate of the enclosure.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. NL/DEK/ExTR11.0035/xx.