CSA INTERNATIONAL

Certificate of Compliance

Certificate:	2489009	Master Contract: 174756
Project:	2551360	Date Issued: August 16, 2012
Issued to:	Emerson Process Management Valve Automatic Asveldweg 11 7556 BR HENGELO The Netherlands)n

The products listed below are eligible to bear the CSA Mark shown



E. Gíustí Issued by: E. Giusti

PRODUCTS

CLASS - 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Ex d IIB+H₂ T4/T6 Class I, Division 1, Groups C, D, Temperature class T4, T6 Class II, Division 1, Groups E, F, G Class III, Division 1 DIP A21 $T_A 80^{\circ}C$ Type 4X

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 / Type 4X when mounted to a FieldQ valve actuator with minimum IP66 / Type 4X.

Ambient temperature range for types M and G is -30 °C to +60 °C for T4 and T6. Ambient temperature range for types O, C, N and H is -25 °C to +60 °C for T4 and T6.

Electrical data

Signal input:

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QC 41xxxxx 24 V DC, 1.8 W or 3.6 W QC 42xxxxx 115 V AC, 3.6 W or 7.2 W QC 43xxxxx 230 V AC, 3.6 W or 7.2 W Power dissipation depends on valve configuration, see type designation table below.

Signal output:

The following configurations of switches can be used:

- Potential free contact switches M-Type: 250VAC / 10A (3A inductive load) 125VAC / 10A (3A inductive load) 250VDC / 0.25A 125VDC / 0.5A 30VDC / 0.5A Potential free contact switches C. Tymes
- Potential free contact switches G-Type: 125VAC / 1A 30VDC / 1A
- 2 wire NAMUR proximity switches: 8VDC / 3mA
- 2 wire proximity H-type switches: 250VAC /100mA 300VDC /100mA
- 3 wire proximity switches NPN or PNP: 10 - 30VDC / 100mA

Type designation

QC42	•	U	P5	Η	S	Α	1
Ι		II	III	IV	V	VI	VII

Designation	Explanation	Value	Explanation
Ι	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	U	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	А	Standard
VII	Language Code	1	English, German, French & Spanish

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APPLICABL	<u>E REQUIREMENTS</u>		
CAN/CSA C2	22.2 No. 60079-0:07	Electrical Apparatus for Explosive C Part 0: General Requirements	Gas Atmospheres –
CAN/CSA C2	22.2 No. 60079-1:07	Electrical Apparatus for Explosive C Part 1: Flameproof Enclosures "d"	Gas Atmospheres –
CAN/CSA-C2	22.2 No.0-M91	General Requirements – Canadian E	Electrical Code, Part II
CAN/CSA-C2	22.2 No.30-M1986	Explosion-Proof Enclosures for Use	
CAN/CSA-C2	22.2 No.94-M91	Special Purpose Enclosures	
CAN/CSA-E6	51241-1-1 -02	Electrical apparatus for use in the pr	resence of combustible dust -
		Electrical apparatus protected by end	closures and surface temperature
		limitation	_
CAN/CSA E6	0529	Degrees of protection provided by en	nclosures (IP code)
CAN/CSA 61	010-1 (second edition)	Safety Requirements for Electrical E and Laboratory Use – Part 1: Genera	Equipment for Measurement, Control, al Requirements (with US/CSA

MARKINGS

The following marking is marked with an adhesive label, Avery Dennison type Matte Chrome Polyester, on the enclosure of the FieldQ unit.

1. Submittor's identification (company name and/or file number and/or registered tradename);

national deviations)

- 2. Model designation;
- 3. Date of manufacture (or traceable serial number);
- 4. The CSA Monogram;
- 5. CSA certificate Number: CSA12.2489009
- 5. Hazardous area:
- 7. Electrical ratings

Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".



Supplement to Certificate of Compliance

Certificate: 2489009

Master Contract: 174756

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
2489009	May 22, 2012	Original Certification of Actuator Control Module Series FieldQ QC41, QC42 and QC43
2551360	August 16, 2012	Editorial correction in certification documents