



Certificate of Compliance

Certificate: 2689509

Master Contract: 259989

Project: 2712754

Date Issued: May 12, 2014

Issued to: Endress + Hauser GmbH + Co. KG
Hauptstrasse 1, Maulburg,
Baden-Wuerttemberg 79690
GERMANY
Attention: Dr. Arno Goetz

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by: Rachel Miranda
Rachel Miranda

PRODUCTS

PART I

CLASS 2258 02 PROCESS CONTROL EQUIPMENT

CLASS 2258 82 PROCESS CONTROL EQUIPMENT For Hazardous Locations - Certified to US Standards

Class II, Div. 1, Groups E, F and G;

The microwave barrier FDR56 receiver/FQR56 emitter and the flow indicator FTR20, rated 85-253 Vac 50/60 Hz 4 VA or 20-60 Vdc 1.5 W, operation temperature -40°C to 70°C, ambient temperature -40°C to +70°C.

Note:

The maximum temperature of the enclosure shall not exceed 70°C due to service temperatures of the process fluid.



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PART II

CLASS 2252 06 - PROCESS CONTROL EQUIPMENT

CLASS 2252 86 - PROCESS CONTROL EQUIPMENT (Certified to U.S. Standards)

The controller FDR56-xxxx receiver/FQR56-xxxx emitter and the flow indicator FTR20-xxxx, rated 85-253 Vac 50-60 Hz, 4 VA or 20-60 Vdc/ 20-30Vac, 50-60Hz, 1.5 W, relay contacts rated 250Vac 6A, 125Vdc 0.4A or 30Vdc 5A, rated ambient -40°C to +70°C, installation Category II.

Note: Model numbers are followed by suffix letters and numbers depicting model specifications.

APPLICABLE REQUIREMENTS

CSA Std. C22.2 No. 0-10

CSA Std. C22.2 No. 25-1966

CSA Std. C22.2 No. 142-M1987(R2009)

CAN/CSA Std. C22.2 No. 94-M91 (R 2011)

CAN/CSA Std. C22.2 No. 60529:05

CAN/CSA-C22.2 No. 61010-1-12

UL 1203:2006 (R2009)

UL Standard 916 (4th Ed. Dec. 17, 2007)

ANSI/IEC 60529-2004

UL Std. No. 61010-1 (3rd Edition)

- General Requirements - Canadian Electrical Code Part II
- Enclosures for Use in Class II Groups E, F, and G Hazardous Locations
- Process Control Equipment Industrial Products
- Special Purpose Enclosures
- Degrees of Protection Provided by Enclosures (IP Code)
- Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
- Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations.
- Energy Management Equipment
- Degrees of Protection Provided by Enclosures (IP Code)
- Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements

MARKINGS

The equipment shall be plainly marked in a permanent manner, in a place where the details will be readily seen after installation with the following information when applicable:

- Company's Name or CSA Master Contract Number "259989" adjacent to the CSA Mark, in lieu of manufacturer name;
- Model number: as specified in the PRODUCTS section above;
- Rated input voltage
- Frequency in cycles per second (if for ac) or the letters dc (if for dc);
- Rated input in amperes, watts or horsepower;
- Ambient temperature rating: as specified in the PRODUCTS section above (optional if -40°C to +70°C);
- Manufacturing date in MMY format or serial number traceable to month of manufacture;
- The CSA Mark with "C" and "US" indicators as shown in the Certificate of Compliance;




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- Hazardous Location designation (i.e. Class II, Groups E, F and G Hazardous Locations);
- The words: “CAUTION – Open circuit before removing cover” or “CAUTION – Keep cover tight while circuit is alive” or “CAUTION: To reduce the risks of ignition of hazardous atmospheres, disconnect the equipment from the supply circuit before opening. Keep assembly tightly closed when in operation” or equivalent;
- Protective earthing TERMINAL is identified by the IEC 60417 No 5019 symbol  , adjacent to the TERMINAL.;
- Input terminals identified by "L1", "N" (85-253Vac versions) or L+, L- (20-60Vdc versions).

Product markings shall be in accordance with the related standards. In addition, it shall be the responsibility of the manufacturer to provide additional markings on the product to comply with the requirements of the local regulatory authorities. For example, in Canada, any caution and warning markings must be provided in French and English.



Supplement to Certificate of Compliance

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*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
2712754	May 12, 2014	255629 – 2609701 255629 – 2668182
2689509	January 7, 2014	Original Certification. 255629 – 2609701

Submittor's Models	Listee's Models
FDR56	FDR56
FQR56	FQR56
FTR20	FTR20