



CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1251617 (LR 53988)

Master Contract: 151079

Project: 2006300

Date Issued: 2008/03/26

Issued to: Endress + Hauser GmbH + Co. KG
Hauptstrasse 1
Maulburg, Baden-Wurttemberg 79690
Germany
Attention: Edwin Steinebrunner

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



Issued by: Edward Foo, C.E.T.

Authorized by: Patricia Pasemko, Operations
Manager

PRODUCTS

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For
Hazardous Locations

Ex ia IIC: Class I, Zone 0:

Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III; Type 4X/6P
Enclosure:

- Prosonic M FMU 40/41 - Ubcdef (2-Wire Intrinsically Safe Versions) or FMU 42/44-Ubcdefg (2-Wire
Intrinsically Safe Versions) Ultrasonic Level Transmitters rated 9 ... 24 Vdc, 0.8 W (2W-PA/FF-F12 Enclosure
or T12 Enclosure with overvoltage protection), 4 ... 20 mA, 30 Vdc (2W-HART). Intrinsically Safe with
Temperature Codes and Maximum Ambient Temperatures with Entity Parameters per Control Drawing



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960523-2080, 960523-2081, 960523-2083, 960523-2084, 960523-2085, 960523-2086.

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

Ex d [ia] IIC: Class I, Zone 1/0:

Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III; Type 4X/6P Enclosure:

- Prosonic M FMU 40/41 - Vbcdef (Explosion Proof Versions) or FMU 42/44-Vbcdefg (Explosion-Proof Versions) Ultrasonic Level Transmitters rated 14 ... 32 Vdc, 0.8 W (2W-PA/FF-T12 Enclosure), 4 ... 20 mA, 32 Vdc (2W-HART). Explosion Proof with Intrinsically Safe electronics and sensors. Temperature Codes and Maximum Ambient Temperatures per Control Drawing 960523-2082.

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Ex nC IIC: Class I, Zone 2:

Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III; Type 4X/6P Enclosure:

- Prosonic M FMU 40/41 - Ubcdef (2-Wire Intrinsically Safe Versions) or FMU 42/44-Ubcdefg (2-Wire Intrinsically Safe Versions) Ultrasonic Level Transmitters rated 9 ... 32 Vdc, 0.8 W (2W-PA/FF-F12 Enclosure or T12 Enclosure with overvoltage protection), 4 ... 20 mA, 30 Vdc (2W-HART). Temperature Codes and Maximum Ambient Temperatures Control Drawing 960523-2080, 960523-2081, 960523-2083, 960523-2084, 960523-2085, 960523-2086.

- Prosonic M FMU 40/41 - Vbcdef (Explosion Proof Versions) or FMU 42/44-Vbcdefg (Explosion-Proof Versions) Ultrasonic Level Transmitters rated 16 ... 32 Vdc, 0.8 W (2W-PA/FF-T12 Enclosure), 4 ... 20 mA, 32 Vdc (2W-HART). Temperature Codes and Maximum Ambient Temperatures per Control Drawing 960523-2082.

- Prosonic M FMU 43 - Pbcdef (Dust Ignition Proof Version) Ultrasonic Level Transmitters rated 90 ... 250 Vac, 50/60 Hz, 4 VA or 10.5 ... 32 Vdc, 1 W (4W-HART) or rated 9 ... 32 Vdc, 0.8 W (2W-PA/FF-F12 Enclosure). Temperature Code T5 at max. Ambient Temperature 60 °C. Temperature Code T4A (at max. Ambient 80°C).

CLASS 2252 01 - PROCESS CONTROL EQUIPMENT

Type 4X/6P Enclosure:

- Prosonic M FMU 40/41/43 - Nbcdef (General Purpose Versions) or FMU 42/44-Nbcdefg (General Purpose Versions) Ultrasonic Level Transmitters rated 90 ... 250 Vac, 50/60 Hz, 4 VA or 10.5 ... 32 Vdc, 1 W (4W-HART), 9 ... 32 Vdc, 0.8 W (2W-PA/FF-F12 Enclosure or T12 Enclosure with overvoltage protection), 14 ... 36 Vdc, 0.8 W (2W-PA/FF-T12 Enclosure), 4 ... 20 mA, 36 Vdc (2W-HART).



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APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 0-M91 (R2001) - General Requirements - Canadian Electrical Code, Part II

CSA Std C22.2 No. 25-1966 - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations

CSA Std C22.2 No. 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations

CAN/CSA-C22.2 No. 94-M91 - Special Purpose Enclosures

CSA Std C22.2 No. 142-M1987 - Process Control Equipment

CSA Std C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

CAN/CSA-E60079-0:02 - Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements

CAN/CSA-E60079-1:02 - Electrical Apparatus for Explosive Gas Atmospheres - Part 1: Flameproof Enclosures "d"

CAN/CSA-E60079-11:02 - Electrical Apparatus for Explosive Gas Atmospheres -Part 11: Intrinsic Safety "i"

CAN/CSA-E60079-15:02 - Electrical Apparatus for Explosive Gas Atmospheres -Part 15: Type of Protection "n"



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
2006300	2008/03/26	Update to report to include Sensor Model FMU 44 (similar to FMU 42)
1644892	2005/02/24	Update to cover minor (non-hazardous) alternative constructions
1579286	2004/09/07	Update to cover addition of FMU 42 (3" sensor), minor mechanical and circuit alterations for installation in Ex d [ia] IIC Hazardous Locations

History

1328858 Nov. 13, 2002 Update to cover drawings revisions and the following additional versions:

1. Prosonic M FMU 40/41-Ubdef (2-Wire I.S. PA/FF 1-1/2" & 2" Versions)
2. Prosonic M FMU 40/41-Vbdef (Explosion Proof 1-1/2" & 2" Versions)
3. Prosonic M FMU 43-Pbdef (Dust Ignition Proof 4" Version)
4. Prosonic M FMU 43-Nbdef (General Purpose 4" Version)

1251617 May 23, 2002 Original Certification (2-Wire I.S. and General Purpose Hart 1-1/2" & 2" versions)