CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1615930 **Master Contract:** 200600

Project: 2261664 **Date Issued:** May 25, 2010

Issued to: **Endress + Hauser Wetzer GmbH Co. KG**

Obere Wank 1
Nesselwang, 87484
Germany
Attention: Michael Pfanzelt

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

Edward Foo

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

PRODUCTS

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

• Digital Field Display, Types RIA 14 and RIA 16, SELV or Class 2 power supply rated 35 Vdc, 4-20 mA. Ambient temperature = - 40°C to + 80°C. Enclosure Type 4X and IP67.

CLASS 2252 05 - PROCESS CONTROL EQUIPMENT

• Digital Field Display, Types RID 14 and RID 16, SELV or Class 2 power supply rated 9…35Vdc, 12mA. Ambient temperature = - 40°C to + 80°C Enclosure Type 4X and IP67.

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

Ex nA IIC:

Class I, Div. 2, Groups A, B, C & D; Class II, Div. 2, Groups E, F and G; Class III, Div. 2:

• Digital Field Display, Types RIA 14 and RIA 16 rated 35Vdc, loop powered 4-20mA, Non-Incendive when connected per Installation Drawings 12 07 00 112 or 02 15 00 112. Temp. Codes T6/T5/T4, Ta = - 40°C to + 55/70/80°C. Enclosure Type 4X and IP67.

• Digital Field Display, Types RID 14 and RID 16, input rated 35Vdc max., 12mA, Non-Incendive when installed with certified non-incendive associated apparatus meeting entity Ui/Vmax = 35Vdc, Ci = 5nF, Li = 10µH per Dwg 12 08 00 112 or 12 06 00 112. Temperature codes: T6, Ta = - 40°C to + 55°C, T5, Ta = - 40°C to + 70°C and T4, Ta = - 40°C to + 80°C. Enclosure Type 4X and IP67.

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

Ex ia IIC:

Class I, Div. 1, Groups A, B, C & D; Class II, Div. 1, Groups E, F and G; Class III, Div. 1:

• Digital Field Display, Types RIA 14 and RIA 16, rated 30Vdc, loop powered 4-20mA, with supply entity parameters Ui = 30Vdc, Ii = 100mA, Pi = 750mW, Ci = 15.2nF, Li = 0 and "OC" entity parameters Ui = 30Vdc, Ii = 100mA, Pi = 375mA, Ci = 0, Li = 0, Intrinsically Safe when connected according to Installation Drawings 12 07 00 112 or 12 05 00 112. Temperature codes, T6, Ta = -40 °C to + 50 °C, T5, Ta = -40 °C to + 60 °C and T4, Ta = -40 °C to + 85 °C. Enclosure Type 4X and IP67.

• Digital field display, Type RID 14 and RID 16, rated 9 - 35V, 12mA, suitable for connection to a Profibus PA/ Foundation Fieldbus system according to Entity of Ui/Vmax = 24Vdc, Ii/Imax = 250mA, Pi/Pmax = 1.2W, Ci = 5nF, Li = 10µH or FISCO Concept Ui/Vmax = 17.5Vdc, Ii/Imax = 500mA, Pi/Pmax = 5.5W, Ci = 5nF, Li = 0µH. Intrinsically Safe when connected according to Installation Drawing No. 12 08 00 112 or 12 06 00 112. Temperature codes T6, Ta = - 40°C to + 55°C; T5, Ta = - 40°C to + 70°C; and T4, Ta = - 40°C to + 80°C. Enclosure Type 4X and IP67.

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT – For Hazardous Locations

Class I, Div. 1, Groups A, B, C and D:

• Digital Field Display, Type RIA 14, rated 35Vdc, 200mA, loop powered 4-20mA, per Installation Dwg 12 07 00 114. Temp. Codes T6/T5/T4, Ta = - 40°C to + 55/70/80°C. Enclosure Type 4X and IP67. Seal conduits within 18".

• Digital Field Display, Type RID 14, rated 9… 35 Vdc, 3W. Connect to Profibus PA / Foundation Fieldbus system per Installation Drawing 12 08 00 114. Temperature codes T6, Ta = - 40 °C to +55 °C; T5, Ta = - 40 °C to +70 °C; and T4, Ta = - 40 °C to +80 °C. Enclosure Type 4X. IP67. Seal conduits within 18".

APPLICABLE REQUIREMENTS

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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. 213-M1987 (Reaffirmed 1999) - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

CAN/CSA-C22.2 No. 157-92 (June 2003) - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

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

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: Electrical Apparatus with Type of Protection “n”.

CAN/CSA-C22.2 No. 1010.1-92, Amends 1 and 2 - Safety requirements for electrical equipment for measurement, control and laboratory use.

CAN/CSA-C22.2 No. 61010-1-04 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use – Part 1: General Requirements

CAN/CSA-C22.2 No. 60529:05 - Degrees of protection provided by enclosures (IP Code).

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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
2261664	May 25, 2010	Update to add new models RID14 & RID16 as XP, IS and NI for CL I, II, III, Div 1 & 2, Grps ABCDEFG & Ex d IIC, Ex ia IIC and Ex nA IIC.
2148752	December 9, 2009	Update to include similar model RIA 16, rename model RIA 141 to RIA 14 and include Intrinsically Safe classification.
1666637	May 27, 2005	CSA Certification of Temperature Transmitter RIA 141 for Explosion-Proof Hazardous Locations with KEMA Test Reports
1615930	March 29, 2005	CSA Certification of Digital Field Display for Installation in Ex nA IIC; Class 1, Div. 2, Groups A, B, C, D; Class ll, Groups E,F, G and Ordinary Locations