



Certificate of Compliance

Certificate: 1893497

Master Contract: 200600

Project: 2572467

Date Issued: January 7, 2013

Issued to: Endress + Hauser Wetzler GmbH Co. KG

Obere Wank 1
Nesselwang, 87484
Germany
Attention: Michael Pfanzelt

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



Eshwar Kashyap

Issued by: Eshwar Kashyap

PRODUCTS

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

Class I, Division 1, Groups A, B, C and D:

- Two-wire iTEMP Head Transmitter, Models Series TMT84 PA and TMT85 FF, rated 9-35V, 12 mA with optional Display Module type TID10. Intrinsically Safe when connected per dwg 34 02 00 112 with FISCO Concept $U_i = 17.5$ V, $I_i = 500$ mA, $P_i = 5.5$ W or Entity $U_i = 24$ V, $I_i = 250$ mA, $P_i = 1.2$ W; $C_i = 5$ nF, $L_i = 10$ μ H. Sensor output having Entity $U_o = 7.2$ V, $I_o = 25.9$ mA, $P_o = 46.7$ mW, $C_o = 13.5$ μ F (Groups A & B); 240 μ F (Group C); 1000 μ F (Group D), $L_o = 59$ mH (Groups A & B); 238 mH (Group C); 477 mH (Group D). Temp. Codes T4, $T_a = -40^\circ\text{C}$ to $+85^\circ\text{C}$; T5, $T_a = -40^\circ\text{C}$ to $+70^\circ\text{C}$; T6, $T_a = -40^\circ\text{C}$ to $+55^\circ\text{C}$.
- Two-wire iTEMP Head Transmitter, Model Series TMT82, rated 11-42V, 23 mA with optional Display Module type TID10. Intrinsically Safe when connected per dwg 34 05 00 112 with Entity $U_i = 30$ V, $I_i = 130$ mA, $P_i = 800$ mW; $C_i = 0$ μ F, $L_i = 0$ μ H. Sensor output having Entity $U_o = 7.6$ V, $I_o = 13$ mA, $P_o = 24.7$ mW, $C_o = 10.4$ μ F (Groups A & B); 160 μ F (Group C); 1000 μ F (Group D), $L_o = 236$ mH (Groups A & B); 946 mH (Group C); 1.893 H (Group D). Temp. Codes T4, $T_a = -50^\circ\text{C}$ to $+85^\circ\text{C}$; T5, $T_a = -50^\circ\text{C}$ to $+75^\circ\text{C}$; T6, $T_a = -50^\circ\text{C}$ to $+58^\circ\text{C}$.
- Two-wire iTEMP DINrail Transmitter, Model Series TMT82, rated 11-42V, 23 mA. Intrinsically Safe when connected per dwg XA01033T with Entity $U_i = 30$ V, $I_i = 130$ mA, $P_i = 770$ mW; $C_i = 3.5$ nF, $L_i = 0$ μ H. Sensor output having Entity $U_o = 9.0$ V, $I_o = 13$ mA, $P_o = 29.3$ mW, $C_o = 4.9$ μ F (Groups A & B); 40 μ F (Group C); 500 μ F (Group D), $L_o = 236$ mH (Groups A & B); 946 mH (Group C); 1.893 H (Group D). Temp. Codes T4, $T_a = -40^\circ\text{C}$ to $+85^\circ\text{C}$; T5, $T_a = -40^\circ\text{C}$ to $+56^\circ\text{C}$; T6, $T_a = -40^\circ\text{C}$ to $+41^\circ\text{C}$.



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CLASS 2258 02 - PROCESS CONTROL EQUIPMENT Process Control equipment for Hazardous Locations

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

- Temperature Transmitter, Type iTEMP TMT84 PA and TMT85 FF, rated 9-35V, 12 mA with optional Display Module type TID10. Explosion-Proof when installed per Drawing 34 02 00 114. Temperature codes T4, Ta = - 40°C to +85°C; T5, Ta = - 40°C to +80°C; T6, Ta = - 40°C to +70°C. Enclosure Type 4X.
- Temperature Transmitter, Type iTEMP TMT82, powered by a voltage of 11...42 Vdc, 23 mA with optional Display Module type TID10. Explosion-proof when installed per Drawing 34 05 00 114. Temperature codes T4, Ta = - 40°C to +85°C; T5, Ta = - 40°C to +80°C and T6, Ta = - 40°C to +70°C. Enclosure Type 4X.

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

Class I, Division 2, Groups A, B, C and D:

- Two-wire iTEMP Head Transmitter, Models Series TMT84 PA and TMT85 FF, rated 9-35V, 12 mA with optional Display Module type TID10. Non-Incendive when installed with Certified non-incendive associated apparatus meeting entity $U_i / V_{max} = 35V_{dc}$; $C_i = 5nF$; $L_i = 10 \mu H$ per dwg 34 02 00 112 . Temp. Codes T4, Ta = - 40°C to + 85°C; T5, Ta = - 40°C to + 70°C; T6, Ta = - 40°C to + 55°C.
- Two-wire iTEMP Head Transmitter, Model Series TMT82, rated 11-42V, 23 mA with optional Display Module type TID10. Non-Incendive when installed with Certified non-incendive associated apparatus meeting entity $U_i / V_{max} = 35V_{dc}$; $C_i = 0 \mu F$; $L_i = 0 \mu H$ per dwg 34 05 00 112. Temp. Codes T4, Ta = - 50°C to + 85°C; T5, Ta = - 50°C to + 75°C; T6, Ta = - 50°C to + 58°C.
- Two-wire iTEMP DINrail Transmitter, Model Series TMT82, rated 11-42V, 23 mA. Non-Incendive when installed with Certified non-incendive associated apparatus meeting entity $U_i / V_{max} = 35V_{dc}$; $C_i = 3.5 nF$; $L_i = 0 \mu H$ per dwg XA01033T. Temp. Codes T4, Ta = - 40°C to + 85°C; T5, Ta = - 40°C to + 56°C; T6, Ta = - 40°C to + 41°C.

Note: The above units are certified as a component for use within an enclosure where the suitability of the final combination is to be determined by authority having jurisdiction.

CLASS 2252 05 - PROCESS CONTROL EQUIPMENT

- Temperature Head Transmitter, Model Series TMT84 PA and TMT85 FF, rated 9-32V dc, 12 mA with either one or two temperature sensor inputs for resistance thermometers, thermocouples and resistance and voltage transmitters. Permanently connected to a SELV source, Installation Category I, Pollution degree 2.



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- Temperature Transmitter, Model Series TMT82 (Head and DINrail), rated 11-42V dc, 23 mA with either one or two temperature sensor inputs for resistance thermometers, thermocouples and resistance and voltage transmitters. Permanently connected to a SELV source, Installation Category I, Pollution degree 2.

APPLICABLE REQUIREMENTS

- CAN/CSA C22.2 No. 0-M91 (R2001) - General Requirements - Canadian Electrical Code, Part II
- CSA Std. C22.2 No. 142-M1987 - Process Control Equipment
- CAN/CSA-C22.2 No. 157-92 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
- CSA Std C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
- CAN/CSA-C22.2 No. 61010-1-04 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use, Part 1: General Requirements.



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
2572467	Jan 7, 2013	Update to include TMT82 DINrail Transmitter.
2462545	Jan 16, 2012	Update to Report to include Ordinary Locations certification of Models TMT 82/84/85 with UL Test Report provided.
2484266	Jan 6, 2012	Update to include certified TA30H explosion - proof enclosure.
2397521	Mar 24, 2011	Update to include Model TMT82 for Exia / Class I, Groups A, B, C and D hazardous classifications with FM Report provided.
1990675	Jul 16, 2008	Intrinsically Safe Display Module TID10 for Class I, Groups A, B, C & D
1893497	Dec 12, 2007	I.S./N.I. Head Transmitter