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Hazardous (Classified) Location Class I / Division 1, 2 / Groups ABCD	Nonhazardous Locations	Installation Notes TMT182
Class I, Zone 0, IIC Class I, Zone 1, IIC Class I, Zone 2, IIC	FM Approved Associated Apparatus	 FM Approved Apparatus must be installed in accordance with manufacturer's instructions. Use supply wires suitable for 5°C above surroundings. Only simple apparatus should be terminated to the sensor connection. Simple apparatus are components as defined by the NEC (1.2 V, 0.1 A, 0.25 mW or 20 µJ). Warning: Substitution of components may impair intrinsic safety or suitability for Class I, Division 2.
TMT182	or Associated Nonincendive Field Wiring Apparatus	INTRINSICALLY SAFE IS Class I / Div. 1 / Groups ABCD - Installation should be in accordance with ANSI/ISA RP 12.6.01 "Installation of Intrinsically safe systems for Hazardous (classified) locations" and the National Electrical Code (ANSI/NFPA 70). - FM Approved Associated Apparatus must meet the following parameters: Uo ≤ Ui Io ≤ Ii Po ≤ Pi Ca ≥ Ci + Ccable La ≥ Li + Lcable Transmitter entity parameters are as follows: Ui or Vmax ≤ 30 V DC Ci = 0 Ii or Imax ≤ 100 mA Li = 0
		 Pi ≤ 750 mW Voc + Voc of Handheld device < Vmax, Isc + Isc of Handheld device < Imax, Po + Po of Handheld device < Pi, Ca > Ci + Ccable + Ci of Handheld device, La > Li + Lcable + Li of Handheld device, when Programming Handheld device is used.
	:	NONINCENDIVE NI Class I / Div. 2 / Groups ABCD - Depending on location install per National Electrical Code (NEC) using wiring methods described in article 500 through article 510. Intrinsic safety barrier not required. Vmax ≤ 30 V DC. - Warning: Do not disconnect equipment unless power has been switched off or the area is known to
Temperature range T4 -40°C +85°C T5 -40°C +70°C T6 -40°C +55°C		 be non-hazardous. Nonincendive field wiring installation The Nonincendive Field Wiring Circuit Concept allows interconnection of Nonincendive Field Wiring Apparatus with Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus or Associated Apparatus not specifically examined in combination as a system using any of the wiring methods permitted for unclassified locations, when Voc ≤ Vmax, Ca ≥ Ci + Ccable, La ≥ Li + Lcable.
INTRINSICALLY SAFEISClass I / Div. 1 / Groups ABCDNONINCENDIVE, FIELD WIRINGNIClass I / Div. 2 / Groups ABCD		Transmitter Nonincendive Field Wiring parameters are as follows:Ui or $Vmax \le 30 V DC$ Ci = 0Li = 0Ii or Imax= see following note below
Sensor circuits (Terminals 36)		For these current controlled circuits, the parameter Imax is not required and need not to be aligned with parameter Isc and It of the Associated Nonincendive Field Wiring Apparatus or Associated Apparatus.
	75 mW a = 100 mH a = 100 mH	Functional ratings These ratings do not supersede Hazardous Location values Unom \leq 30 DC Inom \leq 4 to 20 mA
Approved Date (yyyy-mm-dd) Kellermann 2001-04-24	Drawing No. 14 06 00 111	A Revision no. A T04n04 Revision date (yyy-mm-dd) Name Material 71540234 Meroth XA02345T/09/EN/01.20 Endress+Hauser
Volume (mm³) Designed Date (yyy-mm-dd)		

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Format

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IS, NI

CONTROL DRAWING FM

Series

Sheet

 I of 1
 Endress + Hauser Wetzer

 Monthal Street
 GmbH+Co. KG

 Nesselwang / Germany

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Objekt version

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iTEMP TMT182

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Kellermann

Refer to protection notice ISO 16016

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Edge of working parts Geometrical tolerancing ISO 13715 ISO 2768-mH-E

2001-04-24

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Part No.

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