	N	- το 4 ω						
	Hazardous (Classified) Location Nonhazardous Locations Class I / Division 1, 2 / Groups ABCD	Installation Notes TMT142						
A	Class I, Zone 0, IIC	<ul> <li>FM Approved Apparatus must be installed in accordance with manufacturer's instructions.</li> <li>Use supply wires suitable for 5°C above surroundings.</li> <li>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).</li> <li>Warning: Substitution of components may impair intrinsic safety or suitability for Class I, Division 2.</li> </ul>						
	e.g. RTD or TC Sensor (Simple Apparatus) integral or remote mounted	<ul> <li>INTRINSICALLY SAFE IS Class I / Div. 1 / Groups ABCD</li> <li>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).</li> <li>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:</li> </ul>						
В	FM Approved Handheld	Ui or Vmax ≤ 30 V DC       Ci = 5.3 nF         Ii or Imax       ≤ 300 mA       Li = 0         Pi       ≤ 1000 mW         - Voc + Voc of Handheld device < Vmax, Isc + Isc of Handheld device < Imax,						
	Temperature range	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 ≤ 40 V DC.       -         - Warning:       Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.       -         - Nonincendive field wiring installation       -       -						
0	T4 -40°C +85°C T5 -40°C +70°C T6 -40°C +55°C	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 $Voc \leq Vmax$ , $Ca \geq Ci + Ccable$ , $La \geq Li +$ Lcable.						
	INTRINSICALLY SAFE     IS     Class I / Div. 1 / Groups ABCD       NONINCENDIVE, FIELD WIRING     NI     Class I / Div. 2 / Groups ABCD       Sensor circuits (Terminals 14)     20.2 A mode December 25.5 (mode)	Transmitter Nonincendive Field Wiring parameters are as follows: Ui or Vmax $\leq 40$ V DC Ci = 5.3 nF Li = 0 Ii or Imax = see following note below 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.						
	Uo or Voc or Vt = 7.6 VIo or Isc = 29.3 mAPo = 55.6 mWGroup A, B resp. IICCo or Ca = 10.4 $\mu$ FLo or La = 40 mHGroup C, D resp. IIB, IIACo or Ca = 160 $\mu$ FLo or La = 400 mH	Functional ratingsThese ratings do not supersede Hazardous Location valuesUnom $\leq 40 \text{ DC}$ Inom $\leq 4 \text{ to } 20 \text{ mA}$						
D	Approved Date (yyyy-mm-dd) Drawing No. Pfanzelt 2005-02-16 14 25 00 111	Dwg.rev. Revision no. Revision date (yyy-mm-dd) Name - Material 71540247 XA02331T/09/EN/01.20 Endress+Hauser						

V

D		Approved	Date (yyyy-mm-dd)	Drawing No.	Dwg.rev.	Revision no.	Revision date (yyyy-mm-dd)	Name	Material 7	1540247		<u>_</u> _
		Pfanzelt	2005-02-16	14 25 00 111	-	-	-	-	XA02331T/09/	'EN/01.20	Endress+Hauser 보니	
	Volume (mm <sup>3</sup> )	Designed	Date (yyyy-mm-dd)	Unit	Scale	Title						
		Meroth	2005-02-16	iTEMP TMT142	1:1	CONTROL DRAWING FI			Series			
	Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No. –	Format A4	IS, NI			-		Endress + Hauser Wetzer GmbH+Co.KG Nesselwang/Germany	
			2		ω			4			ы	_