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Installation Notes TMT 182



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- CSA approved apparatus must be installed in accordance with manufacturer's instructions.
- Use supply wires suitable for 5°C above surroundings.
- Stating that only simple apparatus should be terminated to the sensor connection.
 Simple apparatus is defined as a device that will neither generate nor store more than 1.2V, 0.1A, 0.25mW or 20µJ. Examples are Thermocouples or RTDs.

INTRINSICALLY SAFE

Class I / Div. 1 / Groups ABCD

- Installation should be in accordance with the Canadian Electrical Code (CEC).
- CSA Approved Associated Apparatus must meet the following parameters:

 $Uo \leq Ui \qquad Io \leq Ii \qquad Po \leq Pi \qquad Ca \geq Ci + Ccable \qquad La \geq Li + Lcable$ Transmitter entity parameters are as follows:

< 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.

- Warning: Substitution of components may impair intrinsic safety.

NONINCENDIVE

Class I / Div. 2 / Groups ABCD

- Intrinsic safety barrier is not required. Vmax \leq 35 V DC.
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be nonhazardous.

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- 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 $Voc \le Vmax$, $Ca \ge Ci + Ccable$, $La \ge Li + Lcable$. Transmitter Nonincendive Field Wiring parameters are as follows:

 $\label{eq:ci} \mbox{Ui or Vmax} \, \leq 30 \; \mbox{V DC} \qquad \mbox{Ci} = \; 0 \qquad \qquad \mbox{Li} = 0$

 $\hbox{ Ii or Imax } \quad = \hbox{see following note below}$

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.

Functional ratings

These ratings do not supersede Hazardous Location values

Unom \leq 35 DC Inom \leq 4 to 20 mA

7	Approved	Date (yyyy-mm-dd)	Drawing No.	Dwg.rev.	Revision no.	Revision date (yyyy-mm-dd)		Material 71	1036985	
	Pfanzelt	2006-09-13	14 06 00 132					ZD 060R/09/6	en/11.06	Endress+Hauser 4
Volume (mm³)	Designed	Date (yyyy-mm-dd)	Unit	Scale	Title					
	Meroth	2006-09-06	iTEMP TMT182	1:1		DRAWING (_	Serie	S	
Refer to protection notice	Edge of working parts	Geometrical tolerancing	Part No.	Format	Intrinsical s	afety, Noninc	endive	Objekt version	Sheet	Endress + Hauser Wetzer
iso 16016	ISO 13715	ISO 2768-mH-E	-	A4					1 of 1	GmbH+Co. KG Nesselwang / Germany

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