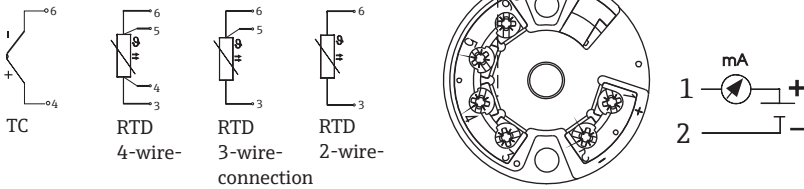
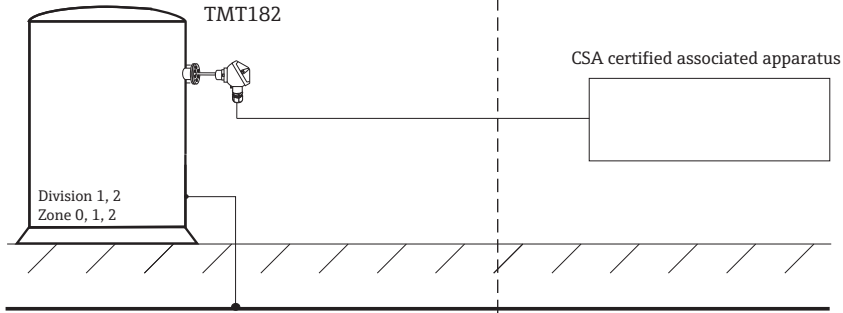


Hazardous (Classified) Location
 Class 1 / Division 1 / Groups ABCD
 Class 1 / Zone 0 / Ex ia IIC
 Class 1 / Division 2 / Groups ABCD

Nonhazardous Locations



Temperature range

T4 -40°C ... +85°C
 T5 -40°C ... +70°C
 T6 -40°C ... +55°C

INTRINSICALLY SAFE IS Class I / Div. 1 / Groups ABCD
NONINCENDIVE, FIELD WIRING NI Class I / Div. 2 / Groups ABCD

Sensor circuits (Terminals 3...6)

Uo or Voc or Vt = 6.0 V Io or Isc = 2.5 mA Po = 3.75 mW
 Group A, B resp. IIC Co or Ca = 40 µF Lo or La = 100 mH
 Group C resp. IIB Co or Ca = 1000 µF Lo or La = 100 mH
 Group D resp. IIA Co or Ca = 1000 µF Lo or La = 100 mH

Installation Notes TMT182

- 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:
 $U_o \leq U_i$ $I_o \leq I_i$ $P_o \leq P_i$ $C_a \geq C_i + C_{cable}$ $L_a \geq L_i + L_{cable}$
 Transmitter entity parameters are as follows:
 U_i or $V_{max} \leq 30$ V DC $C_i = 0$
 I_i or $I_{max} \leq 100$ mA $L_i = 0$
 $P_i \leq 750$ mW
- $V_{oc} + V_{oc}$ of Handheld device < V_{max} , $I_{sc} + I_{sc}$ of Handheld device < I_{max} ,
 $P_o + P_o$ of Handheld device < P_i , $C_a > C_i + C_{cable} + C_i$ of Handheld device,
 $L_a > L_i + L_{cable} + L_i$ 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. $V_{max} \leq 35$ 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
 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 $V_{oc} \leq V_{max}$, $C_a \geq C_i + C_{cable}$, $L_a \geq L_i + L_{cable}$.
 Transmitter Nonincendive Field Wiring parameters are as follows:
 U_i or $V_{max} \leq 30$ V DC $C_i = 0$ $L_i = 0$
 I_i or I_{max} = see following note below
 For these current controlled circuits, the parameter I_{max} is not required and need not to be aligned with parameter I_{sc} and I_t of the Associated Nonincendive Field Wiring Apparatus or Associated Apparatus.

Functional ratings

These ratings do not supersede Hazardous Location values
 $U_{nom} \leq 35$ DC $I_{nom} \leq 4$ to 20 mA



Approved	Kellermann	Date (yyyy-mm-dd)	2001-04-24	Drawing No.	14 06 00 112	Dwg.rev.	B	Revision no.	M06401	Revision date (yyyy-mm-dd)	2006-04-03	Name	MP	Material	71540235 XA02344T/09/EN/01.20	Endress+Hauser
Volume (mm³)	Designed	Kellermann	2001-04-24	Unit	iTEMP TMT182	Scale	1:1	Title	CONTROL DRAWING CSA		Series					
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No.	-	Format	A4	Intrinsical safety, Nonincendive		Objekt version	Sheet	1 of 1		Endress + Hauser Wetzer GmbH+Co. KG Nesselwang / Germany			