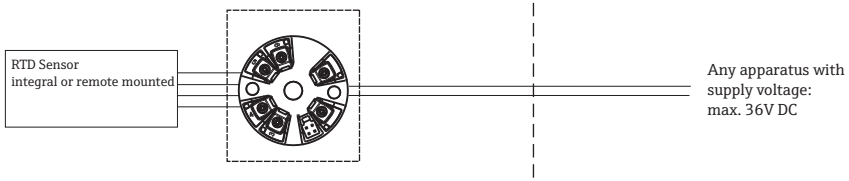

Applicable requirements see CSA certificate **80107564**

Installation Notes TMT31, F2058HRTD

- CSA approved apparatus must be installed in accordance with manufacturer's instructions.
- Install per Canadian Electrical Code or National Electrical Code (NFPA 70).
- Use supply wires suitable for 5°C above surroundings.
- Terminal specification:

	Torque	Cable version	Cable cross-section
Screw terminals cable version, stripping length = min. 7 mm (0.39 in)	0.4Nm	Solid or flexible	0.2 to 1.5 mm² (24 to 16 AWG)
Push-in terminals cable version, stripping length = min. 10 mm (0.39 in)	-	Solid or flexible	0.2 to 1.5 mm² (24 to 16 AWG)
	-	Flexible with wire end ferrules with/without plastic ferrule	0.25 to 1.5 mm² (24 to 16 AWG)

- WARNING: POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS.
  AVERTISSEMENT: RISQUE POTENTIEL DE DÉCHARGES ELECTROSTATIQUES – VOIR CONSIGNES.

INCREASED SAFETY

Ex ec IIC Gc
Class I, Zone 2, AEx ec IIC
Class I, Division 2, Groups A, B, C, D

- Intrinsic safety barrier is not required. Vmax ≤ 36 V DC.
- WARNING: EXPLOSION HAZARD - DO NOT CONNECT OR DISCONNECT WHILE CIRCUITS ARE LIVE UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS.
- AVERTISSEMENT: RISQUE EXPLOSIF- NE JAMAIS BRANCHEZ OU DECONNECTEZ QUAND LES CIRCUITS INTERNES SONT SOUS TENSION Á MOINS QUE LA ZONE SOIT PAS À RISQUES.

Functional ratings

These ratings do not supersede Hazardous Location values
Unom ≤ 36 DC Inom ≤ 4 to 20 mA

Schedule of Limitations:

- Due to the risk of discharge, the non-metallic parts of the equipment and of all non-metallic accessories have to be protected from electrostatic charging during installation and operation (e.g. only wipe with a damp cloth and do not expose to high voltage fields).
- The device may only be powered by a power supply unit with a limited energy electric circuit in accordance with CSA/UL/EN/IEC 61010-1:2010 chapter 6.3.1/6.3.2 and 9.4 or Class 2 according to CSA 223/UL 1310
- For use in the type of protection increased safety Ex ec, and for Zone 2 (EPL Gc), and Class I, Division 2 applications, the transmitter TMT31/F2058HRTD shall be installed completely inside an additional enclosure, providing a degree of protection of not less than IP54 according to CSA/UL 60079-0 and CSA/UL 60079-7. The ambient temperature within the end use enclosure shall not exceed the limits of the permissible ambient temperature range. Clearances, creepage distances, and separations as defined in CSA/UL 60079-7 must be considered for the installation.
- If the head transmitter TMT31/F2058HRTD, in type of protection increased safe and for use in Zone 2 (EPL Gc) and Class I, Division 2 applications, is mounted in an optional field housing the field housing must be equipped with suitable cable glands, certified according to CSA/UL 60079-0 and CSA/UL 60079-7, providing a degree of ingress protection of not less than IP54.
- This component has not been evaluated for process pressure and process temperature, or any other source of heating or cooling.
- Wire end ferrules must be used with spring terminals and when using flexible cables with a cable cross section of = 0.3 mm²
- The end user shall ensure appropriate earthing of any metallic field housing (optional) and any metallic accessories if used.
- The maximum temperature rise recorded was +42°K. These components do not have any surface that achieves a temperature greater than 135°C/100°C/85°C with a 5K safety factor when operated under full load conditions at an ambient of range of 85°C/50°C/35°C respectively.

iTEMP TMT31 and F2058HRTD Ambient temperature range	TCode guidance
-40 °C = Ta = +85 °C	135°C
-40 °C = Ta = +50 °C	100°C
-40 °C = Ta = +35 °C	85°C

- The factory programming 4-pins covered terminals (CDI-Connection) are not used during normal operations.

	Approved	Date (yyyy-mm-dd)	Drawing No.	Dwg.rev.	Revision no.	Revision date (yyyy-mm-dd)	Name	Material	
	Pfanzelt	2021-07-16	10000012751	-	-	-	-	71535026 XA02683T/09/EN/01.21	Endress+Hauser
Volume (mm³)	Designed	Date (yyyy-mm-dd)	Unit	Scale	Title			Series	
	Pfanzelt	2021-07-15	iTEMP TMT31, F2058HRTD	1:1	CONTROL DRAWING CSA Increased Safety			Objekt version	Sheet
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No. -	Format A4					1 of 1

Endress + Hauser Wetzer GmbH+Co. KG Nesselwang / Germany