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<u>WARNING</u>: POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS.
 AVERTISSEMENT: RISQUE POTENTIEL DE DÉCHARGES ELECTROSTATIQUES – VOIR CONSIGNES.

## INCREASED SAFETY

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Applicable for option field housing	Applicable for option field housing					
AA, AB and AC (Component):	A1, A2, A3, A4, D1, D2, H1, H2, H3, H4, H5, H6,					
	H7 and H8:					
Ex ec IIC Gc	Ex ec IIC T6T4 Gc					
Class I, Zone 2, AEx ec IIC	Class I, Zone 2, AEx ec IIC T6T4 Gc					
Class I, Division 2, Groups A, B, C, D	Class I, Division 2, Groups A, B, C, D; T6T4					

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- Intrinsic safety barrier is not required. Vmax ≤ 36 V DC.

- <u>WARNING:</u> 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

 $\begin{array}{ll} These \ ratings \ do \ not \ supersede \ Hazardous \ Location \ values \\ Unom \leq 36 \ DC & Inom \leq 4 \ to \ 20 \ mA \end{array}$ 

## CONDITIONS OF ACCEPTABILITY

- 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 damp cloth and do not expose to high voltage fields).
- For the use as an equipment in type of protection increased safety, and for Zone 2 (EPL Gc), and Class I, Division 2 applications, the head transmitter TMT71/TMT72/L20221/L20222 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.
- For the use as an equipment in type of protection increased safety, and for Zone 2 (EPL Gc), and Class J, Division 2 applications, the head transmitter TMT71/TMT72/L20221/L20222 shall not be connected or disconnected unless the area is known to be non-hazardous. The same applies for the connection and disconnection of the display type TID10.
- If the head transmitter TMT71/TMT72/L20221/L20222 was used in a Zone 2 (EPL Gc) or Class I, Division 2 application it is not allowed to use it in Zone 1 (EPL Gb), Zone 0 (EPL Ga) or Class I, Division 1 applications in the future.
- The use of the display type TID10 with the head transmitter TMT71/TMT72/L20221/L20222 by connecting display to the CDI interface of the head transmitter is only permitted for Zone 2 (EPL Gc) and Class I, Division 2 applications.
- The CDI interface is only allowed to be used for connecting the display type TID10. Irrespective of inside or outside the hazardous area, no other circuits/equipment is allowed to be connected to the CDI Interface.
- The use of the additional field housing (optional) with the head transmitter TMT71/TMT72/L20221/L20222 is only
  permitted for Zone 2 (EPL Gc) and Class I, Division 2 applications.
- If the head transmitter TMT71/TMT72/L20221/L20222, 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.

Applicable for option field housing A1, A2, A3, A4, D1, D2, H1, H2, H3, H4, H5, H6, H7 and H8:

- Final acceptance of this equipment when installed is subject to the jurisdiction of the local inspection authority.
- The end user shall ensure appropriate earthing of the field housing.

Applicable for option field housing AA, AB and AC (head transmitter as component only):

- The end user shall ensure appropriate earthing of the metallic field housing (optional) and all metallic accessories if used (wall
  or pipe mounting accessories for the field housing and the DIN rail clip for the head transmitter) upon installation.
- 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/70°C/55°C respectively.
- when operated under run load conditions at an ambient of range of 85 C770 C755 C respectively.

0		Approved	Date (yyyy-mm-dd)	Drawing No.	Dwg.rev.	Revision no.	Revision date (yyyy-mm-dd)	Name	Material	71620017		
		Pfanzelt	2019-09-04	10000010389	A	-	2023-02-02	MP	XA01904T		Endress+Hauser	
1	Volume (mm³)	Designed	Date (yyyy-mm-dd)	Unit iTEMP TMT71, TMT72 and	Scale	Title						
		Pfanzelt	2018-03-28	L20221, L20222	1:1	CONTROL DRAWING CSA			Se	ries		
	Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No. –	Format A4	Increased	d Safety		Objekt vers		Endress + Hauser Wetzer GmbH+Co.KG Nesselwang/Germany	
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