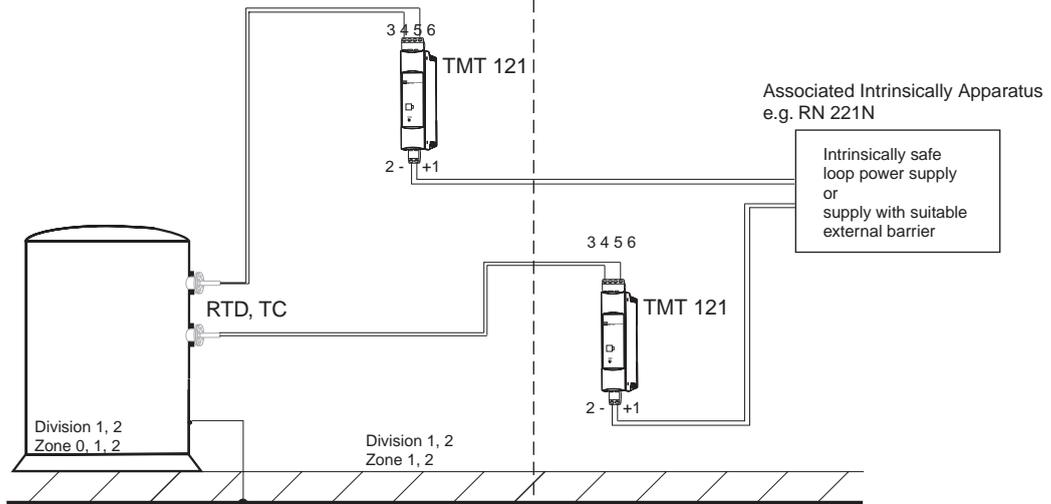


Hazardous (Classified) Location
 IS / Class I / Division 1 / Groups ABCD
 Class I / Zone 0 IIC
 NI / Class I / Division 2 / Groups ABCD



Nonhazardous Locations



Installation Notes TMT 121, TMT 127, TMT 128



APPROVED

- 1) FMRC certified apparatus must be installed in accordance with manufacturer instructions.
- 2) FMRC certified associated apparatus must meet the following requirements:
 $U_o \text{ or } V_{oc} \leq U_i \text{ or } V_{max}$ $I_o \text{ or } I_{sc} \leq I_i \text{ or } I_{max}$ $P_o \text{ or } P_{max} \leq P_i \text{ or } P_{max}$ $C_a \geq C_i + C_{cable}$ $L_a \geq L_i + L_{cable}$
- 3) The installation must be in accordance with the National Electrical Code NEC ANSI / NFPA 70, Article 504 and ANSI / ISA-RP 12.6
- 4) Use supply wires suitable for 5°C above surrounding.
- 5) The configuration of the transmitter TMT 121 is only permitted in nonhazardous locations.
- 6) The voltage of the "tools" used for configuration should not exceed $U_m = 30 \text{ V}$. This can be achieved e.g. by a battery powered laptop. An approved adapter with barrier (e.g. TMT181A) has to be used for configuration using a PC with mains connection ($U_m < 253\text{V}$).

Warning: Substitution of components may impair intrinsic safety

TMT 121, TMT 127, TMT 128			IS / Class I / Division 1 / Groups ABCD / T4/T5/T6 Class I / Zone 0 / AEx ia IIC / T4/T5/T6 NI / Class I / Division 2 / Groups ABCD / T4/T5/T6	
Supply circuit (Terminal 1 and 2)	$V_{max} = U_i \leq 30 \text{ VDC}$ $I_{max} = I_i \leq 100 \text{ mA}$ $P_{max} = P_i \leq 750 \text{ mW}$ $C_i = \text{negligible small}$ $L_i = \text{negligible small}$			
Sensor circuit (Terminal 3 until 6)	$V_{oc} = U_o \leq 2.5 \text{ VDC}$ $I_{sc} = I_o \leq 2.2 \text{ mA}$ $P = P_o \leq 1.4 \text{ mW}$			
Max. Connecting Values (concentrative L, C e.g. cable)	Group A, B	IIC	$L_a = L_o = 1000 \text{ mH}$	$C_a = C_o = 100 \mu\text{F}$
	Group C	IIB	$L_a = L_o = 1000 \text{ mH}$	$C_a = C_o = 1000 \mu\text{F}$
	Group D	IIA	$L_a = L_o = 1000 \text{ mH}$	$C_a = C_o = 1000 \mu\text{F}$
Temperature range	T6: $T_a = -40^\circ\text{C} \dots +50^\circ\text{C}$ T5: $T_a = -40^\circ\text{C} \dots +65^\circ\text{C}$ T4: $T_a = -40^\circ\text{C} \dots +85^\circ\text{C}$			

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Edge of working parts ISO 13715		Geometrical Tolerancing ISO 2768-mH-E		Series	Scale	Volume: [mm ³]
					Material ZD 015R/09/en/08.02	Ident.-No. 510 05062
				Date	Name	Title
				Drawn 2001-08-09	Pfanzelt	CONTROL DRAWING FM ITEMP TMT 121(7)(8)
				Check 2001-08-09	Pfanzelt	
				Norm		
				Sheet size A4		
				Repl. for:		
ENDRESS+HAUSER WETZER				Drawing No.		Sheet 1
				14 10 01 111		Of 1