



Installation Notes TMT 111, TMT 117, TMT 118

- 1) CSA certified apparatus must be installed in accordance with manufacturer instructions.
- 2) CSA certified associated apparatus must meet the following requirements: U_o or $V_{oc} \leq U_i$ or V_{max}
 I_o or $I_{sc} \leq I_i$ or I_{max} P_o or $P_{max} \leq P_i$ or P_{max} C_a or $C_o \geq C_i + C_{cable}$ L_a or $L_a \geq L_i + L_{cable}$
- 3) The installation must be in accordance with the Canadian Electrical Code.
- 4) Use supply wires suitable for 5°C above surrounding.
- 5) The product will be installed in a suitable enclosure accepted by local authority having jurisdiction.
- 6) The configuration of the transmitter TMT 111 is only permitted in nonhazardous locations.
- 7) The voltage of the "tools" used for configuration should not exceed $U_m = 30$ V. This can be achieved e.g. by a battery powered laptop. An approved adapter with barrier has to be used for configuration using a PC with mains connection ($U_m < 253$ V).
- 8) Terminals 1, 2, 3 and 4 provide Intrinsically safe and non-incendive circuits to RTD's, Thermocouples and other passive resistive devices.
- 9) For Division 2 installations
Warning: Do not disconnect equipment unless power has been switched off or the area is known to be nonhazardous.
Warning: Substitution of components may impair suitability for intrinsic safety and Class I, Division 2.



TMT 111, TMT 117, TMT 118	INTRINSICALLY SAFE Class I / Div. 1 / Groups ABCD / T4/T5/T6 Class I / Zone 0 / Ex ia IIC / T4/T5/T6	NONINCENDIVE Class I / Div. 2 / Groups ABCD / T4/T5/T6
Supply circuit (Terminals 5+ and 6-)	$V_{max} = U_i \leq 30$ VDC $C_i = 0$ $I_{max} = I_i \leq 100$ mA $L_i = 0$ $P_{max} = P_i \leq 750$ mW	$V_{max} = U_i \leq 30$ VDC $C_i = 0$ $I_{max} = I_i \leq 100$ mA $L_i = 0$
Sensor circuit (Terminals 1, 2, 3 and 4)	$V_{oc} = U_o \leq 4.4$ VDC $I_{sc} = I_o \leq 9.6$ mA $P = P_o \leq 10.2$ mW	
Max. Connecting Values Group A, B IIC (concentrative L, C Group C IIB e.g. cable) Group D IIA	$L_a = L_o = 100$ mH $C_a = C_o = 100$ μ F $L_a = L_o = 100$ mH $C_a = C_o = 1000$ μ F $L_a = L_o = 100$ mH $C_a = C_o = 1000$ μ 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: $T_a = -40^\circ\text{C} \dots +85^\circ\text{C}$	
	NONINCENDIVE Class I / Division 2 / Groups ABCD / T4/T5/T6 $V_{max} \leq 35$ VDC intrinsic safety barrier not required	

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Edge of working parts ISO 13715 	Geometrical Tolerancing ISO 2768-mH-E	Series	Scale	Volume: [mm ³]
			Material ZD 030R/09/en/01.04 Ident.-No. 510 07639	
	Date	Name	Title	
	Drawn 2004-01-26	Meroth	CONTROL DRAWING CSA ITEMP TMT 111(7)(8)	
	Check 2004-01-26	Meroth		
	Norm			
	Sheet size A4		Drawing No.	
	Repl. for:		14 17 01 112	
Index	Revision	Date	Name	Sheet
Part:			ENDRESS+HAUSER WETZER	1
				Of 1