



Installation Notes TMT111, TMT117, TMT118



- 1) FM Approvals certified apparatus must be installed in accordance with manufacturer instructions.
- 2) FM Approvals 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} $C_a \geq C_i + C_{cable}$ $L_a \geq L_i + L_{cable}$
- 3) The installation must be in accordance with the National Electrical Code NEC ANSI / NFPA 70, Article 504 and ANSI / ISA-RP 12.06.01
- 4) Use supply wires suitable for 5°C above surrounding.
- 5) The configuration of the transmitter TMT 111 is only permitted in non-hazardous locations.
- 6) 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 (e.g. TMT181A) has to be used for configuration using a PC with mains connection ($U_m < 253$ V).

Warning: Substitution of components may impair intrinsic safety

TMT111, TMT117, TMT118		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 5 and 6)		$V_{max} = U_i \leq 30$ VDC $I_{max} = I_i \leq 100$ mA $P_{max} = P_i \leq 750$ mW $C_i =$ negligible small $L_i =$ negligible small	
Sensor circuit (Terminal 1 until 4)		$V_{oc} = U_o \leq 2.5$ VDC $I_{sc} = I_o \leq 2.2$ mA $P = P_o \leq 1.4$ mW	
Max. Connecting Values (concentrative L, C e.g. cable)	Group A, B Group C Group D	IIC IIB IIA	$L_a = L_o = 1000$ mH $C_a = C_o = 100$ μ F $L_a = L_o = 1000$ mH $C_a = C_o = 1000$ μ F $L_a = L_o = 1000$ 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: $T_a = -40^\circ\text{C} \dots +85^\circ\text{C}$

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Material	71540226	Name	-
Objekt version	Serie		Revision date (yyyy-mm-dd)
Sheet		Title	Revision no.
1 of 1			
-		XA02350T/09/EN/01.20	
Approved	Meroth	Drawing No.	14 07 01 111
Checked By	Meroth	Unit	TMT11(7)(8)
Designed	Meroth	Date (yyyy-mm-dd)	2003-09-25
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Agency controlled drawing.
 No changes without prior agency approval.