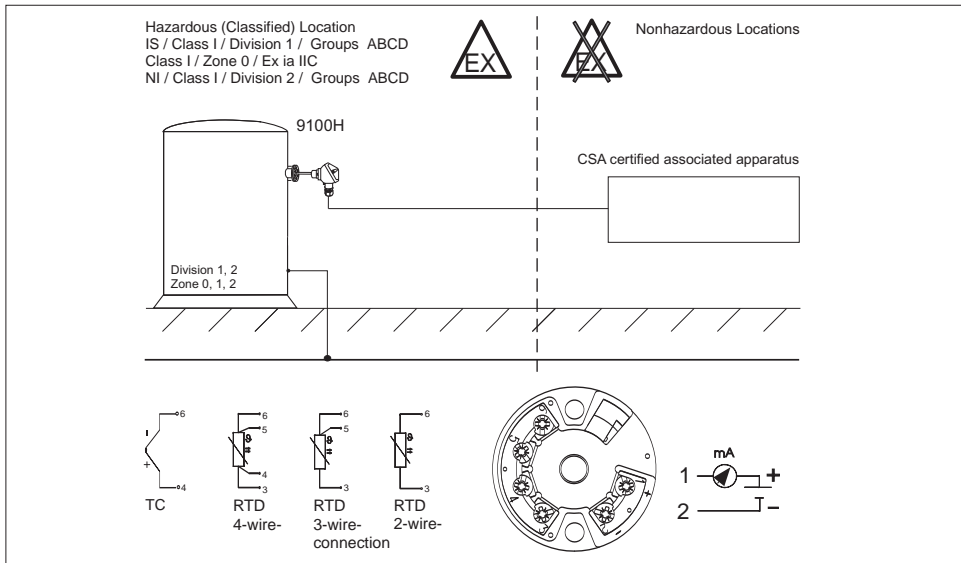


REV	ECO	REVISION DESCRIPTION	BY	APPROVED	DATE



**Installation Notes 9100H**

- CSA certified apparatus must be installed in accordance with manufacturer instructions.
  - 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  $L_a \geq L_i + L_{cable}$
  - The installation must be in accordance with the Canadian Electrical Code.
  - Use supply wires suitable for 5°C above surrounding.
  - Terminals 3, 4, 5 and 6 provide Intrinsically safe and non-incendive circuits to RTD's, Thermocouples and other passive resistive devices.
  - Warning: Substitution of components may impair suitability for intrinsic safety and Class I, Division 2.
- NONINCENDIVE, FIELD WIRING Class I / Div. 2 / Groups ABCD / T4/T5/T6**
- Installation shall comply with wiring methods as per Canadian Electrical Code - Part 1.
  - CSA certified associated nonincendive or intrinsically safe apparatus must meet the following parameters:  
 $U_o$  or  $V_{oc} \leq U_i$  or  $V_{max}$   $C_a$  or  $C_o \geq C_i + C_{cable}$   $L_a$  or  $L_a \geq L_i + L_{cable}$
  - Warning: Do not disconnect equipment unless power has been switched off or the area is known to be nonhazardous.



9100H	INTRINSICALLY SAFE Class I / Div. 1 / Groups ABCD / T4/T5/T6 Class I / Zone 0 / Ex ia IIC / T4/T5/T6	NONINCENDIVE, FIELD WIRING Class I / Div. 2 / Groups ABCD / T4/T5/T6
Supply circuit (Terminals 1 and 2)	$V_{max} = U_i \leq 30$ 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 $C_i = 0$ $L_i = 0$ $I_{max}^{(*)}$ = not required Functional rating: Inormal = 4 to 20 mA
Sensor circuit (Terminals 3 until 6) Max. Connecting Values Group A, B IIC (concentrative L, C Group C IIB e.g. cable) Group D IIA	$V_{oc} = U_o \leq 6.0$ VDC $I_{sc} = I_o \leq 2.5$ mA $P = P_o \leq 3.75$ mW $L_a = L_o = 100$ mH $C_a = C_o = 40$ uF $L_a = L_o = 100$ mH $C_a = C_o = 1000$ uF $L_a = L_o = 100$ mH $C_a = C_o = 1000$ uF	
Temperature range	T6 $T_a = -40^\circ\text{C} \dots +55^\circ\text{C}$ T5 $T_a = -40^\circ\text{C} \dots +70^\circ\text{C}$ T4 $T_a = -40^\circ\text{C} \dots +85^\circ\text{C}$	

<sup>\*)</sup> For this current controlled circuit, the parameter (I<sub>max</sub>) is not required and need not to be aligned with parameter (I<sub>o</sub> or I<sub>sc</sub>) of the barrier or associated nonincendive field wiring apparatus.

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES DO NOT SCALE DRAWING		<p style="text-align: center;"><b>Weed Instrument Company, Inc.</b> Round Rock, Texas</p>				
TOLERANCES UNLESS OTHERWISE NOTED						TITLE
DECIMAL	FRAC	CSA Control Drawing, 9100H				
.XXX +/-	+/-					
.XX +/-	ANG					
.X +/-	+/-	FILE NAME	SIZE	CODE IDENT	DOC NO.	REV
		DRAFTER	<b>A</b>	<b>33969</b>	0014-001-0009	<b>0</b>
		ENGINEER	SCALE:		SHEET 1 OF 1	
		REVIEWER	NOTICE: THIS DOCUMENT MAY NOT BE REPRODUCED OR USED FOR MANUFACTURING PURPOSES EXCEPT WHEN NECESSARY TO FULFILL CONTRACTUAL REQUIREMENTS WITH WEED INSTRUMENT COMPANY, INC. OR WITH PRIOR WRITTEN CONSENT OF WEED INSTRUMENT COMPANY, INC.			
		QA				