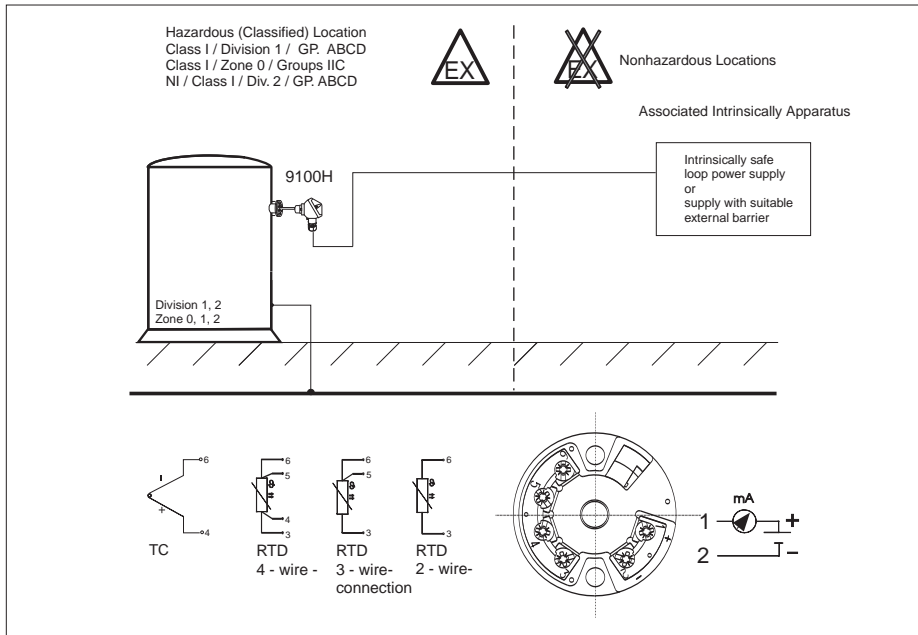


REV	ECO	REVISION DESCRIPTION	BY	APPROVED	DATE



Installation Notes 9100H



APPROVED

- 1) FMRC certified apparatus must be installed in accordance with manufacturer's 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 500, 504 and ANSI / ISA-RP 12.6
- 4) Use supply wires suitable for 5°C above surrounding.
- 5) Stating that only simple apparatus should be terminated to the sensor connection. Simple Apparatus are components as defined by the National Electrical Code.

9100H	IS / Class 1 / Division 1 / Groups ABCD / T4/T5/T6 Class 1 / Zone 0 / AEx ia IIC / T4/T5/T6 NI / Class 1 / Division 2 / Groups ABCD / T4/T5/T6												
Supply circuit (Terminal 1 and 2)	$V_{max} = U_i \leq 30 \text{ VDC}$ $I_{max} = I_i \leq 100 \text{ mA}$ $P_i \leq 750 \text{ mW}$ $C_i \sim 0$ $L_i \sim 0$												
Sensor circuit (Terminal 3 until 6)	$V_{oc} = U_o \leq 6.0 \text{ VDC}$ $I_{sc} = I_o \leq 2.5 \text{ mA}$ $P = P_o \leq 3.75 \text{ mW}$												
Max. Connecting Values (concentrative L, C e.g. cable)	<table border="0"> <tr> <td>Group A, B</td> <td>AEx ia IIC</td> <td>$L_a = L_o = 100 \text{ mH}$</td> <td>$C_a = C_o = 40 \mu\text{F}$</td> </tr> <tr> <td>Group C</td> <td>AEx ia IIB</td> <td>$L_a = L_o = 100 \text{ mH}$</td> <td>$C_a = C_o = 1000 \mu\text{F}$</td> </tr> <tr> <td>Group D</td> <td>AEx ia IIA</td> <td>$L_a = L_o = 100 \text{ mH}$</td> <td>$C_a = C_o = 1000 \mu\text{F}$</td> </tr> </table>	Group A, B	AEx ia IIC	$L_a = L_o = 100 \text{ mH}$	$C_a = C_o = 40 \mu\text{F}$	Group C	AEx ia IIB	$L_a = L_o = 100 \text{ mH}$	$C_a = C_o = 1000 \mu\text{F}$	Group D	AEx ia IIA	$L_a = L_o = 100 \text{ mH}$	$C_a = C_o = 1000 \mu\text{F}$
Group A, B	AEx ia IIC	$L_a = L_o = 100 \text{ mH}$	$C_a = C_o = 40 \mu\text{F}$										
Group C	AEx ia IIB	$L_a = L_o = 100 \text{ mH}$	$C_a = C_o = 1000 \mu\text{F}$										
Group D	AEx ia IIA	$L_a = L_o = 100 \text{ mH}$	$C_a = C_o = 1000 \mu\text{F}$										
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: $T_a = -40^\circ\text{C} \dots +85^\circ\text{C}$												

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES DO NOT SCALE DRAWING		<p style="text-align: center;">Weed Instrument Company, Inc. Round Rock, Texas</p>				
TOLERANCES UNLESS OTHERWISE NOTED						TITLE
DECIMAL	FRAC	FM Control Drawing, 9100H				
.XXX +/-	+/-					
.XX +/-	ANG					
.X +/-	+/-	FILE NAME	SIZE	CODE IDENT	DOC NO.	REV
		DRAFTER	A	33969	0502-157-0010	0
		ENGINEER	SCALE:		SHEET 1 OF 1	
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