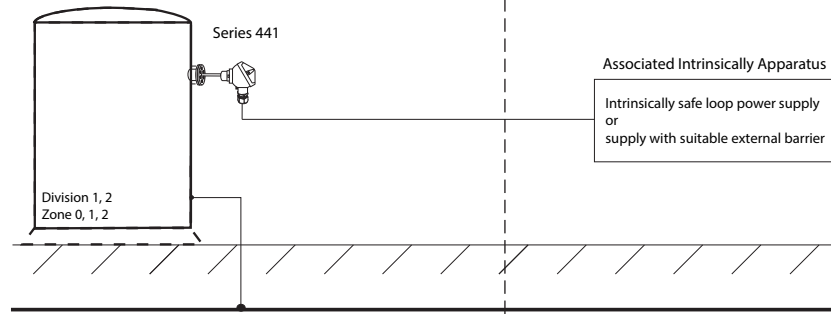


Hazardous (Classified) Location
 Class I / Division 1, 2 / Groups ABCD
 NI / Class 1 / Division 2 / Groups ABCD

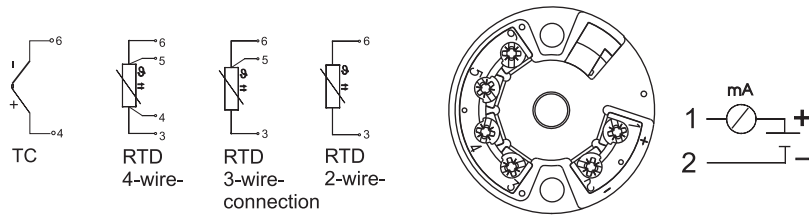


Nonhazardous Locations

Installation Notes Series 441



- FMRC Certified Apparatus must be installed in accordance with manufacturer's instructions.
- FMRC Certified Associated Apparatus must meet the following requirements:
 $U_o \text{ or } V_{oc} \leq U_i \text{ or } V_{max}$ $I_o \text{ or } I_{sc} \leq I_i \text{ or } I_{max}$ $P_o \text{ or } P_{max} \leq P_i \text{ or } P_{max}$
 $C_a \geq C_i + C_{cable}$ $L_a \geq L_i + L_{cable}$
- The installation must be in accordance with the National Electric Code NEC ANSI / NFPA 70, Article 504 and ANSI / ISA-RP 12.6
- Use supply wires suitable for 5 °C above surroundings.
- The configuration of the Series 441 transmitter is only permitted in nonhazardous location.
- 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 a barrier has to be used for configuration using a PC with mains connection ($U_m < 253 \text{ V}$).
- Transmitter entity parameters are as follows:
 $V_{max} = U_i \leq 30 \text{ V dc}$
 $I_{max} = I_i \leq 100 \text{ mA}$
 $P_{max} = P_i \leq 750 \text{ mW}$
 $C_i = 0$
 $L_i = 0$
- Warning: Substitute of components may impair intrinsic safety.



Temperature range

- T4 -40 °C ... +85 °C
- T5 -40 °C ... +70 °C
- T6 -40 °C ... +55 °C

INTRINSICALLY SAFE

Class I / Div. 1 / Groups ABCD

NONINCENDIVE, FIELD WIRING

Class I / Div. 2 / Groups ABCD

Sensor output circuits (Terminals 3...6)

$U_o \text{ or } V_{oc} \leq 8.2 \text{ V}$ $I_o \text{ or } I_{sc} \leq 4.5 \text{ mA}$ $P \text{ or } P_o \leq 9.36 \text{ mW}$

Group A, B	AEx ia IIC	$C_o \text{ or } C_a = 974 \text{ nF}$	$L_o \text{ or } L_a = 4.5 \text{ mH}$
Group C	AEx ia IIB	$C_o \text{ or } C_a = 1900 \text{ nF}$	$L_o \text{ or } L_a = 8.5 \text{ mH}$
Group D	AEx ia IIA	$C_o \text{ or } C_a = 210 \mu\text{F}$	$L_o \text{ or } L_a = 1000 \text{ mH}$

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