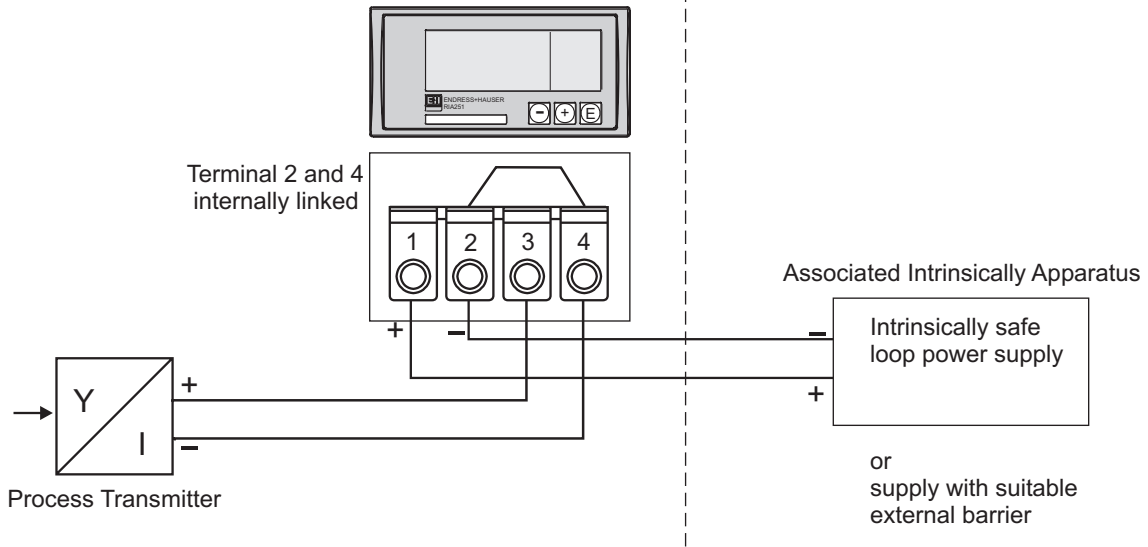


Hazardous (Classified) Locations
Class I, Div. 1, Groups A, B, C, D



Nonhazardous Locations



Installation Notes RIA 251

Hazardous Locations Installations
Intrinsically safe, Class I, Division 1, Groups ABCD T6
Division 1 Installation

1. FM Approved apparatus must be installed with manufacturers instructions.
2. Installation should be in accordance with NEC ANSI / NFPA 70, Article 504 and ANSI / ISA-RP 12.6
3. Control room equipment may not use or generate over 250V
4. The Type RIA 251 Process Display is a panel-mount instrument for installation in a suitable enclosure acceptable to the local inspection authority
5. The Process Display must be connected to a suitable ground.
6. For entity installations: Use FM certified intrinsic safety barrier or other associated equipment that satisfy the following conditions:
 $U_{oc} < V_{max}$,
 $I_{sc} < I_{max}$,
 $C_a > C_i$ (RIA 251) + C_i (Process transmitter) + C cable,
 $L_a > L_i$ (RIA 251) + L_i (Process transmitter) + L cable
7. Warning: Substitution of Components may impair intrinsic safety
8. Use supply wires suitable for 5°C above surroundings

Process Display entity parameters are as follows:

RIA 251	IS, Class I, Div. 1, Groups ABCD T6
Supply set	$V_{max} < 30$ VDC $I_{max} < 150$ mA $C_i = 7.3$ nF $L_i = 0$
Temperature range	$T_a = -10^\circ\text{C} \dots +60^\circ\text{C}$

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Edge of working parts ISO 13715 		Geometrical Tolerancing ISO 2768-mH-E		series	Scale	Volume: [mm ³]
					Material ZD 003R/09/en/10.00	Ident.-No. 510 02781
				Date	Name	Title CONTROL DRAWING FM RIA 251
		Drawn 1999-08-04		Kellermann		
		Check 1999-08-04		Kellermann		
		Norm				
		Sheet size A4		Repl. for:		Drawing No. 01 94 00 111
A	K01201	2001-02-12	TK	ENDRESS+HAUSER WETZER		
Index	Revision	Date	Name			
Part:						Sheet 1 Of 1