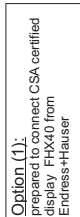


Class I, DIV. 1, GROUPS A, B, C, D
Ex ia IIC Tx
Class II, DIV. 1, GROUP G + Coal Dust
Class III



Option (2):
Interconnection with CSA certified
Service Interface
Commubox FXA193 with ToF Cable;
from Endress + Hauser.



Electrostatic (X-Marking)

charge.

Zone	permissible transferred load Q in nC		
	II A	II B	II C
Zone 0	60	30	10
Zone 1	60	30	10
Zone 2	no limit		

Without any Zone 0 and possible (e.g.,

Area of application:
The compact instruments are suitable for use in areas subject to explosion caused by gases, vapours or mists.

Area with plastic surfaces	measured transferred load [nC] (Test Report)	X-Marking for following gas groups required		
		IIA	IIB	IIC
Flange cladding	< 75	---	---	IIC
Rod	< 30	---	---	IIC
Rope	< 10	---	---	---
Weight of rope	< 30	---	---	IIC

Applied to the Levelflex M FMP41C-..... the following context is stated:

Notes: INTRINSICALLY SAFE (Ex ia), CLASS I, DIV. 1, GROUP A, B, C D or Ex ia IIC

ia II C

1. Control room equipment may not use or generate over 250 Vrms.
2. Install per the Canadian Electrical Code
3. Warning: Substitution of components may impair intrinsic safety.

5. For entity installation use CSA certified equipment that satisfy the following conditions: with $U_0/V_{oc} \leq I_l/V_{max}$, $I_0/I_{sc} \leq I_l/I_{max}$, $Co/Ca \geq Ci + C$ cable, $Lo/La \geq Li + L$ cable conditions: with $U_0/V_{oc} \leq I_l/V_{max}$, $I_0/I_{sc} \leq I_l/I_{max}$, $Co/Ca \geq Ci + C$ cable, $Lo/La \geq Li + L$ cable

UI / Vmax. (V)	II / Imax. (mA)	PI / Pmax. (W)	CI (nF)	Li (μH)
17.5	500	5.5	≤ 5	10
24	250	12	< 5	10

6. For system installation

b. For system installation use: CSA certified safety barriers as follows:

(a) 28V / 300 Ω + Ground or

(a) 28V / 300 Ω + Ground or
(b) 28V / 300 Ω + 28V / Diode or

(b) $28\text{V} / 300\ \Omega + 28\text{V} / \text{Diode of}$
(c) $28\text{V} / 300\ \Omega + 10\text{V} / 50\ \Omega$

(c) $28\text{ V} / 300\ \Omega + 10\text{ V} / 50\ \Omega$
Use supply wires suitable for 5 K above surrounding ambient.

Install barrier / associated equipment in accordance with manufacturer's instruction.

Use specific cables, supplied with the Service Interface Commubox FXA193 or Remote Display FHX40.

Refer to the applicable Control Drawing.

CLASS I, DIV. 2, GROUP A, B, C, D or Ex nC IIC, AND DIP, FOR CLASS II AND III, DIV.1, GROUP G and Coal Dust
HAZARDOUS LOCATION INSTALLATION.

1. Depending on Location install per Canadian Electrical Code (CEC) using wiring methods described in Rule 18-156 or Rule 18-202 or Rule 18-302. Intrinsic safety barrier not required max. supply voltage 30V. For T-code see table.

2. Warning: Explosion Hazard - Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.
Warning: Explosion hazard - substitution of components may impair suitability for Class I, Div. 2.

For CLASS II and III; Div.1:

WARNING: Keep cover tight unless power has been switched off or the area is known to be non-hazardous.

Temperature

Test series	permissible maximum temperature at the probe (processor function)	FMP41C	permissible maximum ambient of electronic compartment (T _a)
IP class with / without dust	+80 °C	+56 °C	FMP41C with Remote electrode with flexible tube
IP class with / without dust	+80 °C	+60 °C	+60 °C
IP class with / without dust	+95 °C	+75 °C	+75 °C
IP class with / without dust	+95 °C	+74 °C	+75 °C
IP class with / without dust	+130 °C	+67 °C	+80 °C
IP class with / without dust	+80 °C	+80 °C	+80 °C
IP class with / without dust	+150 °C	+62 °C	+80 °C
IP class with / without dust	+150 °C	+80 °C	+80 °C
IP class with / without dust	+150 °C	+75 °C	+80 °C
IP class with / without dust	+80 °C	+80 °C	+80 °C
IP class with / without dust	+80 °C	+75 °C	+80 °C

note: the applicable temperature of probe must be within their specified limits
 1) functional means max. permissible process temperature

Area of application:

Area of application:
The compact instruments are suitable for use in areas subject to explosion caused by gases vapours or mists.

Permissible ambient temperature:
Electronic: F23 enclosure:
Probes: FMP41C

-40.... +80°C
refer Technical

Refer Technical Information

For Installation acc. -FISCO- Concept
see Control dwg.
9604 14-2067 (part FISCO)