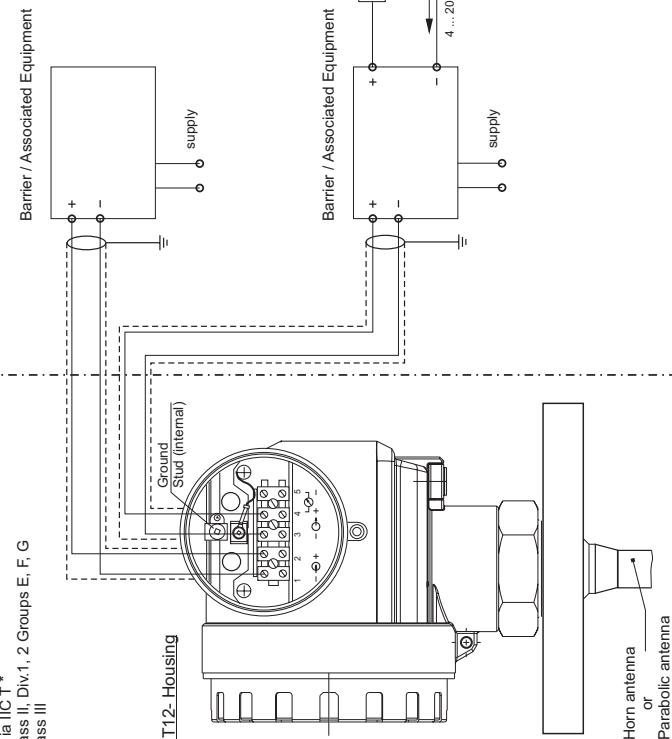


HAZARDOUS AREA

Class I, Div.1, 2 Groups A, B, C, D
Ex ia IC T^{*}
Class II, Div.1, 2 Groups E, F, G
Class III

NON HAZARDOUS AREA



ZD196F/00/ae/03.07
CCS/FM6.0
CSA

Control drawing
960007205-A

Micropilot S FMR540



71001135

Notes: Intrinsically safe Class I, Div.1, Group A, B, C, D or Ex ia IIIC Hazardous Location Installation

1. Control room equipment may not use or generate over 250 V_{RMS}.
2. Installation should be in accordance with the Canadian Electrical Code.
3. Warning: Substitution of components may impair intrinsic safety.
- Avertissement: La substitution de composants peut compromettre la sécurité intrinsèque.
4. Ex ia is defined as intrinsically safe / sécurité intrinsèque.
5. For entity installation use CSA certified safety barrier or other associated equipment that satisfy the following conditions: with $U_o/V_{oc} \leq U/V_{max}$, $I_o/I_{sc} \leq I/V_{max}$, $C_o/C_s \geq C+L_o/L_a \geq L+L_{cable}$. Barrier must be incapable of delivering more than 1 Watt to a matched load.

Transmitter entity parameters are as follows:

Intrinsically safe supply circuit:

U/V _{max} [V]	I _i /I _{i,max} [mA]	P _i /P _{i,max} [W]	C _i [nF]	L _i [μH]
30	300	1.0	≤ 18.5	13

Intrinsically safe signal circuit:

U/V _{max} [V]	I _i /I _{i,max} [mA]	P _i /P _{i,max} [W]	C _i [nF]	L _i [μH]
30	300	1.0	≤ 20.7	0

6. For temperature code of the Micropilot S FMR540 see table.
7. Install barrier / associated equipment in accordance with the manufacturer's instructions.
8. Use supply wires suitable for 5 °C above surrounding ambient.
Utiliser des fils d'alimentation qui conviennent à une température de 5 °C au-dessus de la température ambiante.
9. In case of use of the parabolic antenna avoid electrostatic charge at the antenna (e.g. do not rub with dry cloth; do not install within the filling curtain).

Class I, Div. 2, Group A, B, C, D or Ex nA IIIC and DIP for Class II, Div1, Group E, F, G and Class III Hazardous Location Installation

1. Installation should be in accordance with the Canadian Electrical Code using threaded metal conduits.
2. Intrinsic safe barrier not required. Class 2 power supply shall be used, max. supply voltage 30V DC.
- For temperature code of the Micropilot S FMR 540 see table.
3. Warning:
Explosion Hazard - Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.
- Avertissement: Risque d'explosion - Avant de déconnecter l'équipement, couper le courant ou s'assurer que l'emplacement est désigné non dangereux.
4. Warning:
Explosion hazard - substitution of components may impair suitability for Class I, Div. 2.
- Avertissement: Risque d'explosion - La substitution de composants peut rendre ce matériel inacceptable pour les emplacements de Classe I, Division 2.

For Class II and III, Div. 1 Hazardous Location Installation:

5. A dust tight seal must be used at the conduit entry when the transmitter is used in a Class II or III location.
6. Warning: keep cover tight unless power has been switched off or the area is known to be non-hazardous.

Area of application!

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

Permissible ambient temperature:

Electronics: Intrinsic safety, T12-enclosure: -40... +80 °C

Antennas: Horn or parabolic antenna: -40... +200 °C

Permissible process / ambient temperature and temperature code:

Temperature code of Micropilot S FMR 540...	Permissible medium temperature (flange)	Permissible ambient temperature of electronics compartment as a function of medium temperature (horn or parabolic antenna)
T6	+80 °C +60 °C	+55 °C +60 °C
T5	+95 °C +75 °C	+70 °C +75 °C
T4	+130 °C +80 °C	+75 °C +80 °C
T3	+195 °C +150 °C	+70 °C +75 °C
T2, T1 functional	+200 °C	+70 °C

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