



80596A

08-2021

Complementary documentation

**SAFETY NOTE HMX-HWX - 3GD**

### DESCRIPTION

HMX and HWX series Melt pressure transmitters are mercury-filled (HMX) or oil-filled (HWX).

The transmitters are designed and built in conformity to EN IEC 60079-0:2018, EN 60079-15:2010, EN 60079-31:2014

Protection mode: group II, category 3G, 3D

GAS protection mode: Ex nA IIC T6, T5, T4 Gc (Ambient Temperature: -20°C...+60°C / +75°C / +85°C)

DUST protection mode: Ex tc IIIC T85°C, T100°C, T135°C Dc IP65 (Ambient Temperature: -20°C...+60°C / +75°C / +85°C)

### ELECTRICAL DATA

Maximum voltage U:	30 V
Maximum current I:	100 mA
Maximum power P:	0,75 W
Ambient temperature:	-20...+60 °C / +75 °C / +85 °C

### MARKING



0722



II 3 G Ex nA IIC T6, T5, T4 Gc

II 3 D Ex tc IIIC T85°C, T100°C, T135°C Dc IP65

**0722** = number of Notified Body for ATEX supervision (CESI)

**II 3** = group II (surface area), category 3

**G** = explosive atmosphere with presence of gases, vapors or mists, dust

**D** = explosive atmosphere with presence of dust

**Ex nA IIC T6/T5/T4 Gc** = protection mode, gas, temperature classes, EPL -20...+60°C / +75°C / +85°C

**Ex tc IIIC T85°C/T100°C/T135°C Dc IP65** = protection mode, dust, max surface temp, EPL -20...+60°C / +75°C / +85°C

### Correspondence between hazardous areas and categories, EPL

Dangerous zone		Category Directive 2014/34/EU	EPL Equipment
Gases, vapors or mists	Zone 0	1G	Ga
Gases, vapors or mists	Zone 1	2G or 1G	Gb or Ga
Gases, vapors or mists	Zone 2	3G, 2G or 1G	Gc, Gb or Ga
Dust	Zone 20	1D	Da
Dust	Zone 21	2D or 1D	Db or Da
Dust	Zone 22	3D, 2D or 1D	Dc, Db or Da

## SAFETY INSTRUCTIONS FOR INSTALLATIONS IN DANGEROUS ZONES

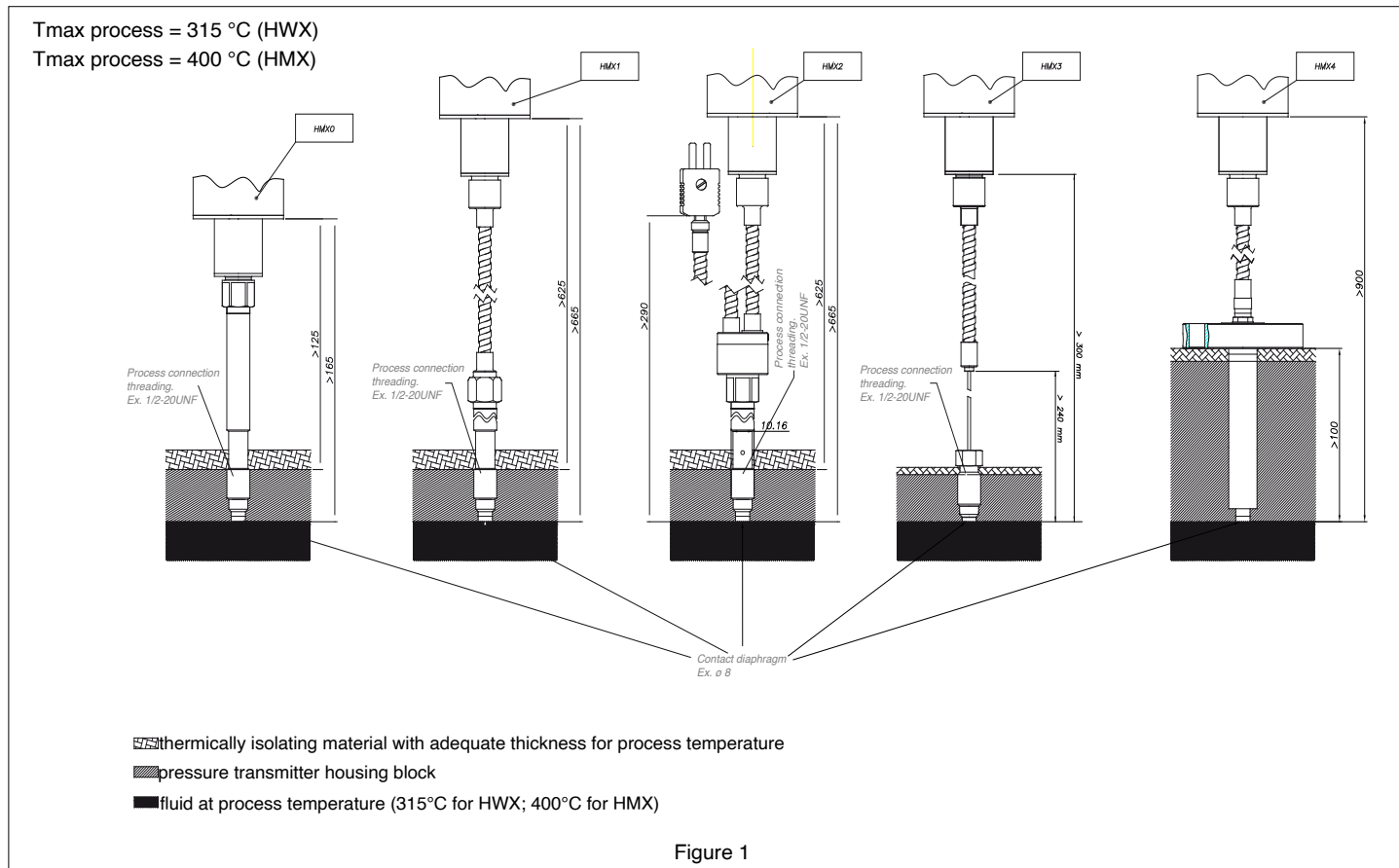
The HMX and HWX series Melt pressure transmitter must be installed and serviced in conformity to plant engineering and maintenance standards for environments classified at risk of explosion due to the presence of gases (example: EN 60079-14, EN 60079-17 or other national standards) and dust. Please avoid any dust accumulation on the transmitter.

The Melt HMX, HWX pressure transmitter must not be connected under voltage.

DO NOT SEPARATE WHEN ENERGIZED

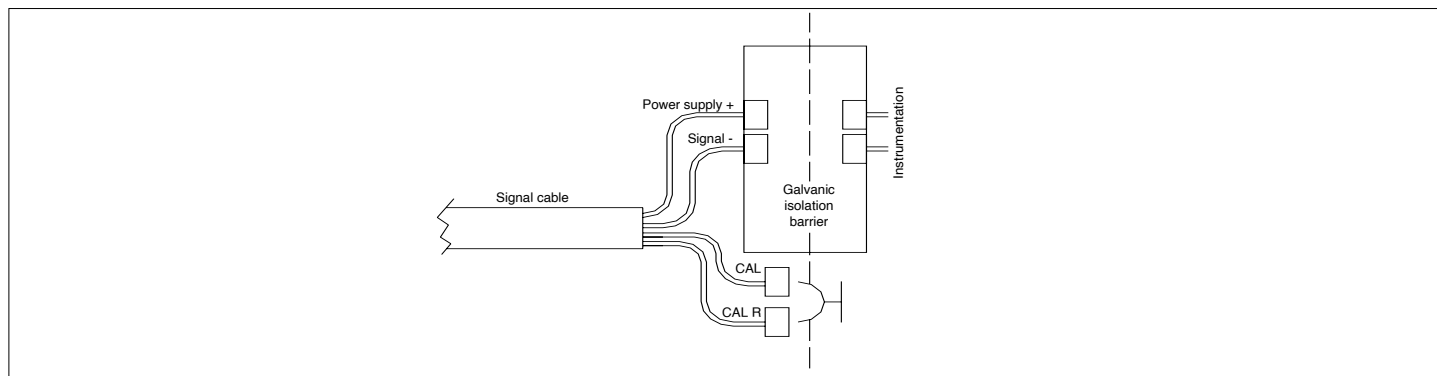
## MOUNTING INSTRUCTIONS FOR INSTALLATIONS IN DANGEROUS ZONES

Based on the application, HMX and HWX series Melt pressure transmitters must be installed according to the instructions in figure 1



The AUTOZERO procedure must be run by means of the transmitters pen by short circuiting the CAL lines as shown in the following figures or by means of HART control.

The CAL procedure must be run by short circuiting the leads directly on the cable or on the connector terminals.



GEFRAN spa reserves the right to make aesthetic or functional changes at any time and without notice.

**GEFRAN**

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