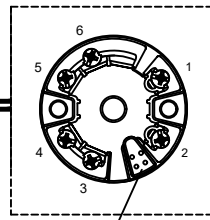


Hazardous Area  
Zone 0, 1, 2  
EPL Ga, Gb, Gc

e.g. RTD or TC Sensor (Simple Apparatus) integral or remote mounted



Terminal for connecting to display D10  
NOTE: Display D10 Not Allowed for Div 1, Zone 0, EPL Ga Applications

Non-hazardous Area

Certified associated intrinsically device

Associated intrinsically safe devices with max. connection values from the following table (head transmitter)



**INTRINSICALLY SAFE**

**Safety instructions: Installation**

- Comply with the installation and safety instructions in the Operating Instructions.
- Install the device according to the manufacturer's instructions and any other valid standards and regulations (e.g. EN/IEC 60079-14)
- When installing the unit note that the housing ingress protection classification IP20 according to EN/IEC 60529 is upheld.
- When connecting the measurement unit with a certified circuit of category "ib" into an IIC or IIB hazardous area the ignition class changes to: Ex ib IIC or Ex ib IIB.
- In hazardous areas it is not permitted to use the CDI interface for configuration.
- The device (terminal head) must be connected to the potential compensation cable.
- The certified display, type D10, may only be installed in Zone 1/EPL Gb or Zone 2/EPL Gc.
- The permitted ambient temperatures for display type D10 must be observed.

**Safety instructions: Zone 1 and Zone 2**

- According to the specifications of the manufacturer, this apparatus can be operated in zone 1 (category 2)/EPL Gb or zone 2 (category 3) /EPL Gc.
- The sensor current circuit may be introduced into zone 0 (category 1)/EPL Ga.

**Safety instructions: Zone 0 (only for head transmitters)**

- (These instructions are only valid if the device is installed directly in Zone 0 (Category 1)/EPL Ga.)
- Explosive steam/air mixtures may only occur under atmospheric conditions.  
-50 °C = Ta = +60 °C  
0.8 bar = p = 1.1 bar  
If there is no explosive mixtures present, or if additional measures have been taken in accordance with EN 1127-1, the devices may also be operated outside the atmospheric conditions in accordance with the manufacturer's specifications.
  - The restricted ambient temperature outlined in EN 1127-1 6.4.2 must be observed (see table).
  - The power circuit to be supplied must comply with Ex ia IIC type of protection (EN/IEC 60079-14 12.3).
  - The devices may be used only in fluids if the process-wetted materials are sufficiently resistant to such fluids.
  - When operating the complete device in Zone 0/EPL Ga, the compatibility of the device materials with the media must be guaranteed. (Housing: polycarbonate (PC), potting: silicone).
  - It is not permitted to mount the D10 display Zone 0/EPL Ga.
  - The temperature transmitter must be mounted in such a way that electrostatic charging cannot occur, e.g. installation in a grounded metallic head or grounded housing.

**Temperature range**

Zone 0, EPL Ga - No Display: Ta: -52 ... +46/60/60°C T6/T5/T4

Zone 1, EPL Gb - with or without Display D10: Ta: -40 ... +55/70/85°C T6/T5/T4

Applicable requirements see EPS certificates IECEx EPS 23.0018X, EPS 23 ATEX 1 087 X

Terminals	Entity Parameters		
T82 Supply Terminals (+ and -)	$U_i \leq 30 \text{ VDC}$ $I_i \leq 130 \text{ mA}$ $P_i \leq 800 \text{ mW}$ $C_i \leq \text{negligible}$ $L_i = \text{negligible}$		
T82 Sensor Terminals (3 to 7)	$U_o \leq 7.6 \text{ VDC}$ $I_o \leq 13 \text{ mA}$ $P_o = 24.7 \text{ mW}$		
	Max. connection data		
		Lo	Co
	Ex ia IIC	10 mH	1 $\mu\text{F}$
Ex ia IIB	50 mH	4.5 $\mu\text{F}$	
	Ex ia IIA	50 mH	6.7 $\mu\text{F}$
Display Connection (optional)	$U_o \leq 7.62 \text{ VDC}$ $I_o \leq 130 \text{ mA}$ $C_i \leq \text{negligible}$ $L_i = \text{negligible}$		
	Max. connection data		
		Lo	Co
	Ex ia IIC	3.1 mH	0.64 $\mu\text{F}$
Ex ia IIB	16 mH	3.8 $\mu\text{F}$	
	Ex ia IIA	27 mH	12 $\mu\text{F}$



**INTRINSICALLY SAFE**

IECEx EPS 23.0018X; EPS 23ATEX 1 087X

II 1G, II 2G  
Ex ia IIC T6...T4 Ga  
Ex ia IIC T6...T4 Gb

<b>TITLE:</b> CONTROL DRAWING EPS ATEX / IECEx Ex ia, T82		<b>PART NUMBER:</b>		<b>REVISION DATE:</b> 02/16/2023	
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FORT WAYNE, INDIANA 260-484-2580