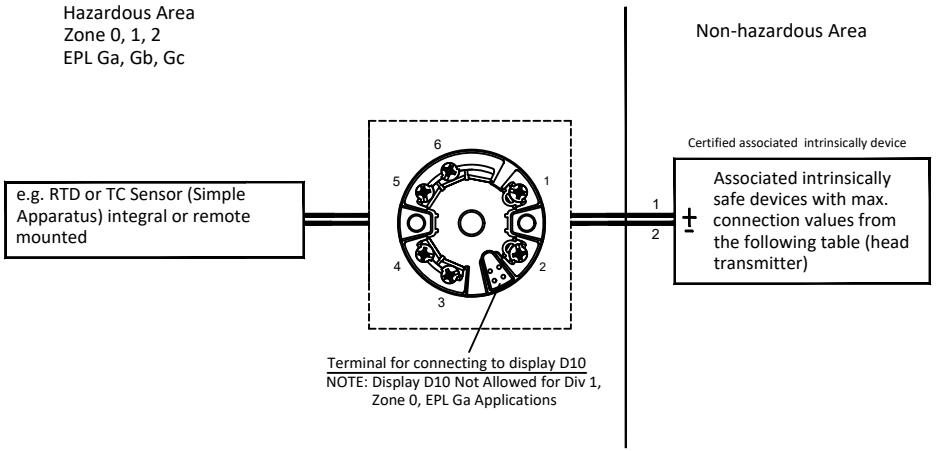

Temperature range

Zone 0, EPL Ga - No Display:	Ta: -50 ... +40/60/60°C	T6/T5/T4
Zone 1, EPL Gb - No Display:	Ta: -50 ... +55/70/85°C	T6/T5/T4
Zone 1, EPL Gb - with Display:	Ta: -40 ... +55/70/85°C	T6/T5/T4

Applicable requirements see EPS certificates IECEx EPS 23.0020X, EPS 23 ATEX 1 089X

Terminals	Entity Parameters		
Supply Terminals (+ and -)	Ui ≤ 30 VDC Ii ≤ 100 mA Pi ≤ 800 mW Ci ≤ negligible Li = negligible		
Sensor Terminals (3 to 6)	Uo ≤ 4.3 V Io ≤ 4.8 mA Po = 5.2 mW		
	Max. connection data		
		Lo	Co
	Ex ia IIC	50 mH	3 µF
	Ex ia IIB	100 mH	18 µF
	Ex ia IIA	100 mH	48 µF

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 device, the IP20 protection rating of the housing must be maintained in accordance with EN/IEC 60529.
- When connecting the measuring device with a certified circuit of category "iB" into an IIB hazardous area, the ignition class changes to: Ex ib IIC or Ex ib IIB.
- The use of the CDI interface for configuration in hazardous areas is not permitted.

Safety instructions: head transmitter

- 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: field housing**
- The housing of the field transmitter must be connected to the potential matching line.
- The circuits of the installed head transmitter are insulated from its housing in accordance with EN/IEC 60079-11 chapter 6.3.13

Safety instructions: Zone 0

(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 no explosive mixtures are 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 ambient temperature restrictions 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 measuring devices may be used only in media to which theprocess-wetted materials have a sufficient level of resistance.
- When operating the complete device in Zone 0/EPL Ga, the compatibility of the device materials with the media must beguaranteed. (Housing: polycarbonate (PC), potting: silicone).
- The installation of display D10 in Zone 0/EPL Ga is not permitted.
- The temperature transmitter must be mounted in such a way that electrostatic charging cannot occur, for example by installing in a grounded metallic head or grounded housing.

Safety instructions: Specific conditions of use

- In hazardous areas it is not permitted to use the CDI interface of T7x for configuration.
- The head transmitter must be protected against electrostatic charge/discharge.

INTRINSICALLY SAFE
IECEx EPS 23.0020X; EPS 23ATEX 1 089x
II 1G, II 2G, II 2(1)G
Ex ia IIC T6...T4 Ga (w/o display)
Ex ia IIC T6...T4 Gb (w/ display D10)
Ex ia [ia Ga] IIC T6...T4 Gb (w/ field housing)

TITLE: CONTROL DRAWING EPS ATEX / IECEX Ex ia, T71 / T72		PART NUMBER:	REVISION DATE: 02/16/2023	
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