

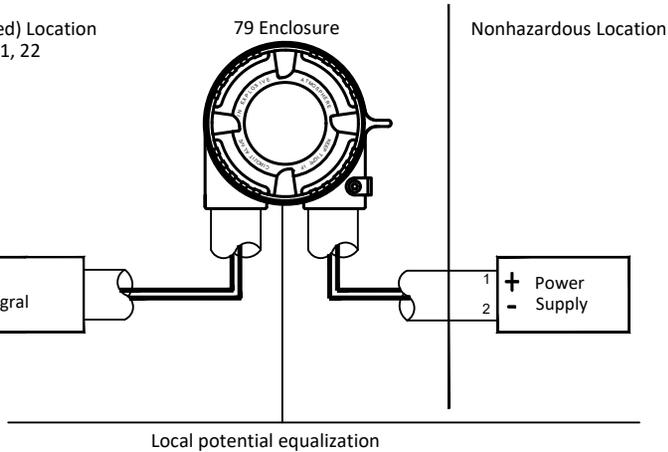
Hazardous (Classified) Location
Zone 1, 2 or Zone 21, 22

79 Enclosure

Nonhazardous Location

Approved Sensor

e.g. RTD or TC Sensor
- Mounted remote or integral



Local potential equalization

Temperature range

Ta: -50°C to +65/80/85°C T6/T5/T4 T85/T100/T105°C

Transmitter Type	Supply Voltage - Electric Rating
T71, T72	Max 36 Vdc ---, 23mA
T82	Max 42 Vdc ---, 23mA

Safety Instructions Installation:



WARNING

- Do not open the electrical connection of the power supply circuit under voltage in an explosive atmosphere.
- In an explosive atmosphere, do not open the device when voltage is supplied (for Ex tb protection, ensure that the IP6x housing protection is maintained during operation).
- 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).
- The housing of the field transmitter must be connected to the potential matching line.
- For connection through a conduit entry approved for this purpose the associated sealing facility shall be mounted directly to the housing.
- For operating the transmitter housing at an ambient temperature under -20 °C, appropriate cables and cable entries permitted for this application must be used.
- For ambient temperatures higher than +70°C, use suitable heat-resisting cables or wires, cable entries and sealing facilities for Ta +5K above surrounding.
- Seal unused entry glands with approved sealing plugs that correspond to the type of protection.
- During operation, the cover must be screwed all the way in and the cover's safety catch must be fastened.
- The transmitter must be installed so, that even in the event of rare incidents, an ignition source due to impact or friction between the enclosure and iron/steel is excluded.
- Keep enclosure cover closed tightly and safety lock engaged when circuits are powered and an explosive atmosphere is present. Enclosure requires 3mm hexagonal wrench to engage safety lock.

FLAMEPROOF PROTECTION:

- Only the approved wire entries as specified in paragraph 10.3 of EN/IEC60079-14, paragraph 16 of EN/IEC 60079-0, paragraph 13 of EN/IEC 60079-1 must be used.
- The remote or integral mounted temperature sensor must comply with the requirements according to EN/IEC 60079-1.
- Use for remote temperature sensors only approved sensors certified for category 2G marked not less than II2G Ex d IIC T6...T4 Gb for use in Zone 1 (EPL Gb).
- Use for integral temperature sensors only approved sensors certified for category 1G or 2G marked not less than II1/2G Ex d IIC T6...T4 Ga/Gb or II2G Ex d IIC T6...T4 Gb for use in Zone 0 (EPL Ga) resp. Zone 1 (EPL Gb).
- The temperature class specified for the certified temperature sensor shall be taken into account.
- The flameproof joints are not intended to be repaired.

DUST IGNITION PROTECTION:

- Seal the cable entries tight with certified cable glands (min. IP6X) IP6X according to IEC/EN 60529.
- Use for integral temperature sensors only approved sensors certified for category 1D or 2D marked not less than II1/2D Ex ta/Ex tb IIIC T135 °C Da/Db or II2D Ex tb IIIC T135 °C Db for use in Zone 20 (EPL Da) or Zone 21(EPL Db).
- Use for remote temperature sensors only approved sensors certified for category 2D marked not less than II2D Ex tb IIIC T135 °C Db for use in Zone 21 (EPL Db).
- The remote or integral mounted temperature sensor must comply with the requirements according to EN/IEC 60079-31.
- The maximum surface temperature specified for the certified temperature sensor shall be taken into account.

Field Wiring Connection Threads: (2) 1/2"NPT



DEKRA 23ATEX0041
IECEX DEK 23.0036
II2G II2D
Ex db IIC T6...T4 Gb
Ex tb IIIC T85...T105°C Db

TITLE: Installation Drawing DEKRA Ex db/tb - T71, T72, T82 Transmitter w/ 79 Enclosure	PART NUMBER: 	REVISION DATE: 06/30/2023		
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