

FlexTop 2202 Temperature Transmitter

Safety instructions

This instrument is built and tested according to the current EU-directives and packed in technically safe condition. In order to maintain this condition and to ensure safe operation, the user must follow the hints and warnings given in this instruction.

During the installation the valid national rules have to be observed. Ignoring the warnings may lead to severe personal injury or substantial damage to property.

The product must be operated by trained staff. Correct and safe operation of this equipment is dependent on proper transport, storage, installation and operation.

All electrical wiring must conform to local standards. In order to prevent stray electrical radiation, we recommend twisted and shielded input cables, as also to keep power supply cables separated from the input cables. The connection must be made according to the connecting diagrams.

Before switching on the power supply take care that other equipment is not affected. Ensure that the supply voltage and the conditions in the environment comply with the specification of the device.

Before switching off the supply voltage check the possible effects on other equipment and the processing system.

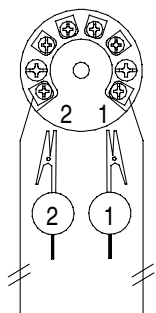
WARNING

For electrical installation and commissioning of explosion protected devices, the data given in the conformity certificate as also the local regulations for installation of electrical apparatus within explosion protected areas must be considered. The intrinsically safe versions can be mounted in the explosion hazarded area according to its specification only connected to a certified intrinsically safe supply loop with the corresponding electrical values.

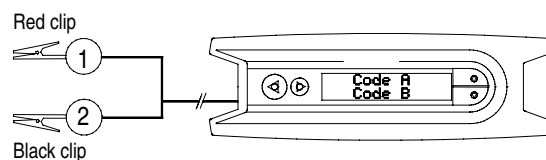


Connecting the FlexProgrammer

Disconnect loop supply before connecting the FlexProgrammer to FlexTop 2202.



FlexProgrammer 9701



Note: Ambient temperature range 0...50°C

This Ex-approved product is manufactured by:
Baumer A/S
Jacob Knudsens Vej 14
DK-8230 Aabyhoej
Denmark



Ex-Application

A FlexTop 2202 with type number 2202 0002 is approved for Ex ia IIC T5/T6, ATEX II 1G in accordance with the current EU-directives.

The installation of FlexTop 2202 must be done in accordance with prevailing guidelines for zones 0, 1 or 2.

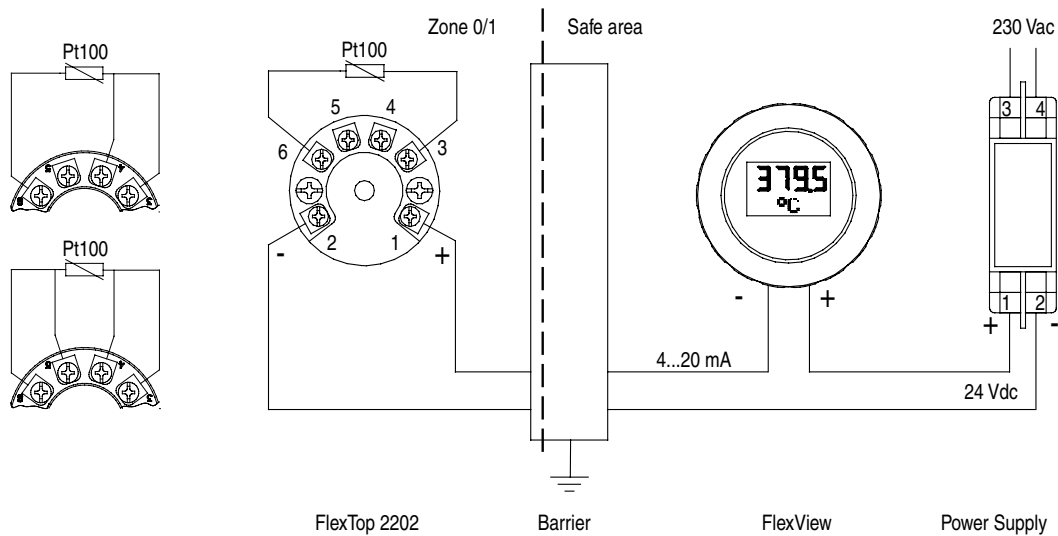
The FlexTop 2202 parameters are:

$$L_{eq} < 10 \mu\text{H}, C_{eq} < 10 \text{nF}$$

The FlexTop 2202 must be connected in the 4...20 mA loop circuit only. FlexTop 2202 contains no repairable parts and must be replaced as a unit in case of malfunction. It has no need for preventive maintenance, except investigation for loose connection screws.

FlexTop 2202 must be mounted in a housing, i.e. a $\varnothing 80\text{mm}$ stainless steel housing (type number 81 43-110) or a DIN-B housing (type number 81 43-120) or the like.

Ex-Connection Diagram



Ex-Configuring

None of the two types of FlexProgrammer configuring unit must be connected to the FlexTop 2202 within the hazardous area.

Configuring procedure:

- Disconnect mains from the 4...20 mA loop circuit.
- Disconnect the FlexTop 2202 from the circuitry within the hazardous area.
- Bring the FlexTop 2202 to the safe area.
- Connect the FlexProgrammer and perform the configuring session.
- Re-install the FlexTop 2202 in the hazardous area.
- Connect the power supply to the circuit.

The FlexTop 2202 can be configured, using the 4...20 mA cable. The maximum distance depends on the cable type, resistance and capacity. We recommend to use screened cables.

To be able to configure the FlexTop 2202 with the FlexProgrammer the dedicated software, Flex-Program, must be loaded on the PC.

Ex-Data

| | |
|-----------------------------|---|
| Approval | Ex ia IIC T5/T6, ATEX II 1G |
| Supply range | 8...28 Vdc |
| Internal inductivity | $L_i \leq 10 \mu\text{H}$ |
| Internal capacity | $C_i \leq 10 \text{nF}$ |
| Barrier data | $U \leq 28 \text{Vdc}$; $I \leq 0.1 \text{A}$; $P \leq 0.7 \text{W}$ |
| Temperature class | T1...T5: $-40 < T_{amb} < 85^\circ\text{C}$ T6: $-40 < T_{amb} < 50^\circ\text{C}$ |

WARNING

This product contains no replaceable parts. In case of malfunction the product must be shipped to Baumer for repair.

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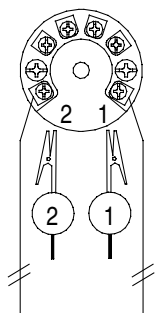
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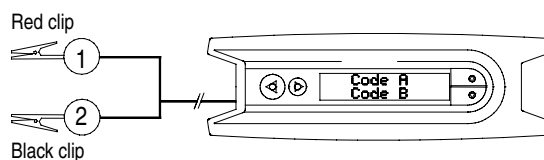


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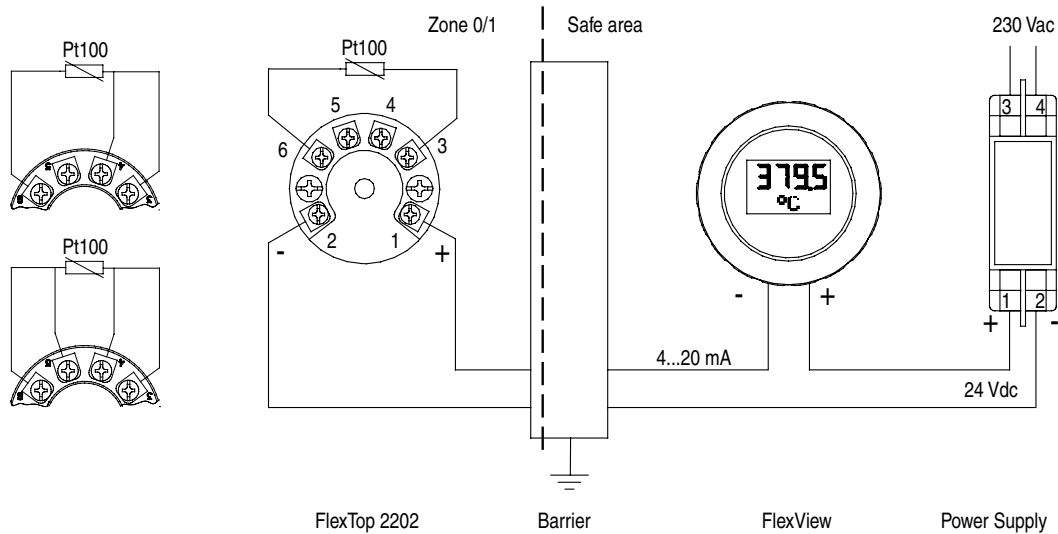
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