

FlexTop 2202

Operating instructions





Description

The FlexTop temperature transmitter type 2202 is suitable for input from Pt100 RTD sensors.

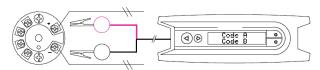
The FlexTop 2202 features a 4 ... 20 mA output signal.

Environment		
Humidity	<98 % RH, condensing	
Ambient temperature	-40 85°C	
Storage temperature	-55 90 °C	
Protection class	IP10, terminals	
	IP55, housing	
Vibrations	GL, test 2	

Configuring with FlexProgrammer 9701

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 shielded cables.

To be able to configure the FlexTop 2202 with the FlexProgrammer 9701 the dedicated software, FlexProgram, must be loaded on the PC. During the configuration the new data is, by means of the FlexProgrammer 9701, transferred from the PC to the FlexTop 2202, where it is stored in the internal memory.



Note: During the first power-up after a configuration the power-on time increases to approx. 10 sec.

Field of application

FlexTop temperature transmitter type 2202 is a compact temperature transmitter, designed to be built into the housing of a temperature sensor, like the Baumer CombiTemp.

Safety instruction

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.

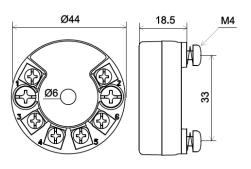
Before switching on the power supply take care that other equipment is not affected. Ensure that the supply voltage and the conditions in the environment comply with the specification of the device.

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.

Dimensions



WARNING

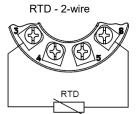
This product contains no replaceable parts. In case of malfunction the product must be shipped to Baumer for repair



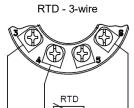
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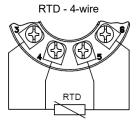
Electrical installation



No cable compensation Can be configured

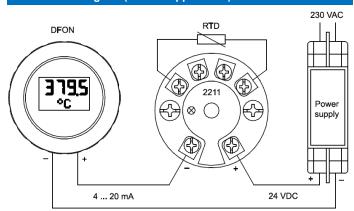


3-wire cable compensation Can be configured



4-wire cable compensation
Can be configured

Connection diagram (non-EX application)



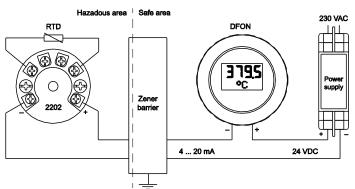


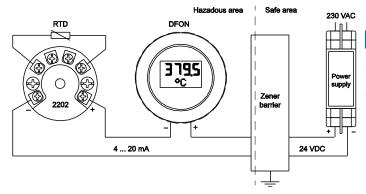
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Hazardous area - ATEX

Connection diagram ATEX





ATEX configuration with FlexProgrammer 9701

The FlexProgrammer 9701 configuring unit must be connected to the FlexTop 2202 or DFON outside the hazardous area.

Configuring procedure:

- a) Disconnect mains from the 4...20 mA loop circuit.
- b) Disconnect the FlexTop 2202 from the circuitry within the hazardous area.
- c) Bring the FlexTop 2202 to the safe area.
- d) Connect the FlexProgrammer 9701 and perform the configuring
- e) Reinstall the FlexTop 2202 in the hazardous area.
- f) Connect the power supply to the circuit.

ATEX data for FlexTop™ 2202 Ex ia (2202-0002)

Approval	ATEX II 10	G Ex ia IIC T5/T6
Voltage supply range	828 V D	С
Internal inductivity Internal capacity	•	10 μH 10 nF
Temperature class		40 <tamb <85°c<br="">40 <tamb <50°c<="" td=""></tamb></tamb>
Barrier data	l _i : ≤	28 VDC 0,1A 0,7 W

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

The FlexTop 2202 must be connected in the 4...20 mA loop circuit only. FlexTop 2202 must be mounted in a housing, e.g. ø80mm stainless steel housing or DIN-B housing.

ATEX data for FlexTop™ 2202 Ex ec (2202-0003) ATEX II 3G Ex ec IIC T5 X Approval 8...28 V DC U_i: Supply range

<100 mA li: Temperature class T5: -40 <Tamb <85°C

A FlexTop 2202-0003 may be mounted in hazardous areas in accordance with the current EU-directives.

The product must be mounted in a suitable enclosures fulfilling relevant requirement in EN 60 079-0 among these minimum IP54 ingress protection.