



COMET T4211 Temperature Transducer Sensor Instruction Manual

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COMET T4211 Temperature Transducer Sensor



PRODUCT DESCRIPTION

The P4211 transducer is designed for temperature measurement at °C or °F by means of an external temperature probe with Pt1000 sensor.

The device settings can be changed with using the PC connected via the optional SP003 communication cable (not included in delivery). The TSensor software (free to download from www.cometsystem.com) provides to change output temperature range, temperature unit choice (°C or °F), output voltage range and perform the adjustment.

Setting from the manufacturer

voltage output range: 0 to 10 V

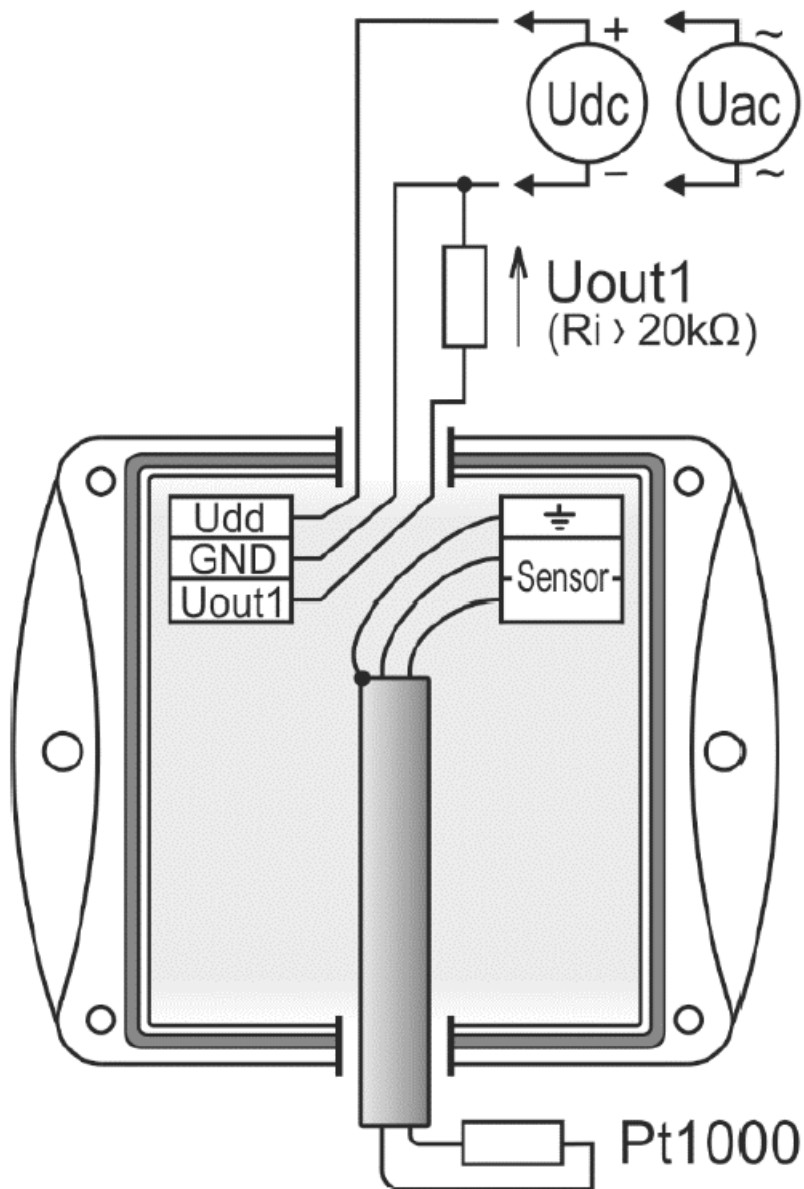
temperature range: -200 to +600 °C

temperature unit: °C

DEVICE INSTALATION

Devices are designed for wall mounting. There are two mounting holes at the sides of the case. The working position is arbitrary.

The connecting terminals are accessible after unscrewing the four screws in the corners of the case and removing the lid. Pass the connecting cable through released upper gland and connect the wires to terminals. For device connection it is recommended to use a shielded cable with maximum length of 15 m and with external diameter of 4 to 8 mm. External temperature probe should be of „shielded two-wire“ type. The cable probe shielding connect to proper terminal only and do not connect it to any other circuitry and do not ground it. Maximum probe cable length is 10 m. Finally tighten the glands and screw the lid (check the integrity of the seal).



Devices don't require special operation and maintenance. It is recommended to verify the accuracy of measurement.

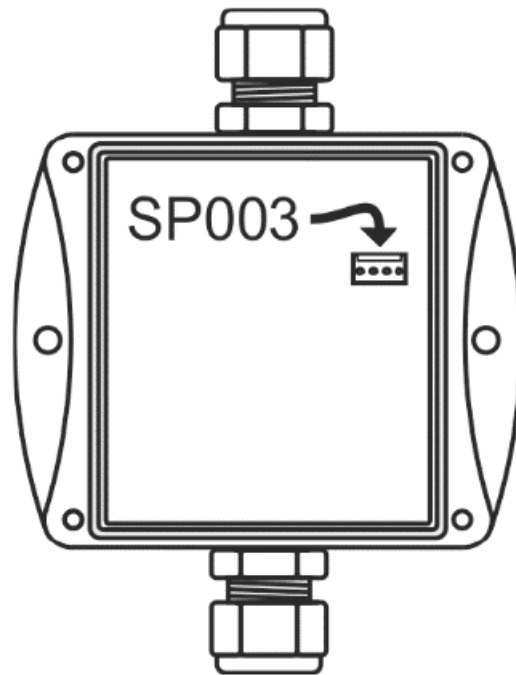
WARNING

- The devices are not designed for locations with chemically aggressive environment.
- Don't connect transmitter while power supply voltage is on.
- The cables should be located as far as possible from potential interference sources.
- Installation, commissioning and maintenance may only be carried out by personnel with qualification by applicable regulations and standards.

PROCEDURE OF MODIFICATION OF DEVICE ADJUSTMENT

- Install TSensor configuration program on the PC (take care about installation of drivers for USB communication cable)
- Connect SP003 communication cable to USB port of the PC (installed USB driver detect connected cable and create virtual COM port)

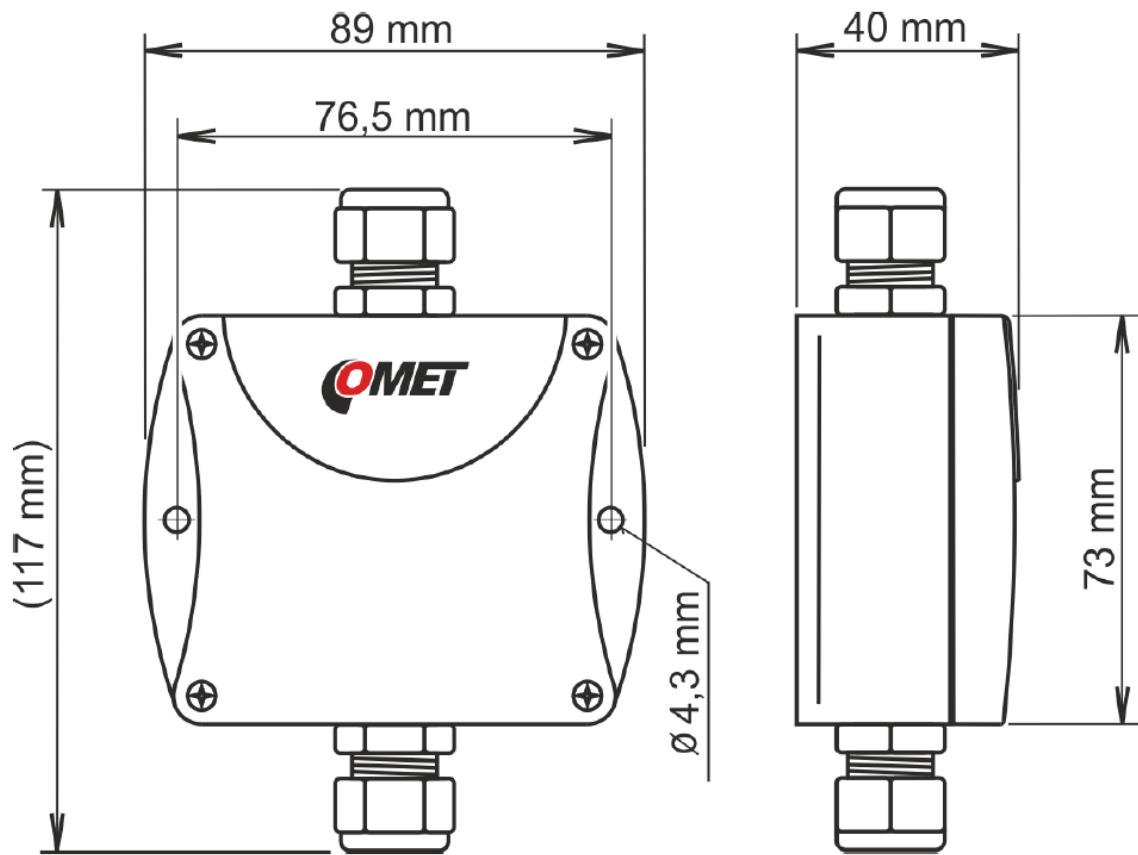
- Unscrew four screws and remove the lid (if device is already installed to measuring system, disconnect wires from terminals)
- Connect SP003 communication cable to the device (see picture)
- Run installed TSensor program and continue in accordance with its instructions
- When new setting is saved and finished, disconnect the cable from the device, connect wires into its terminals and place the lid back to the device



ERROR STATES OF THE DEVICE

The error status of the transducer is indicated by the value of the output voltage. The voltage value less than -0.1 V indicates low resistance of temperature sensor (short circuit) or serious error (contact distributor of the device). The voltage value about 10.5 V indicates high non-measurable resistance of temperature sensor (opened circuit).

DIMENSIONS



MEASURED VALUE

Temperature:

- probe: Pt1000/3850 ppm
- measuring range: -200 to +600 °C (can be limited by applied temperature probe type)
- accuracy without probe: $\pm(0.15 + 0.1 \% \text{ FS})$ °C

GENERAL

- Power supply voltage:
 - 15 to 30 Vdc
 - 24 Vac
- Voltage output range: 0 to 10 V
- Output load capability: min. 20 k Ω
- Recommended interval of calibration: 2 years
- Protection: IP65
- Working position: arbitrary
- Storage temperature range: -30 to +80 °C
- Storage humidity range: 0 to 100 %RH (no condensation)
- Electromagnetic compability: EN 61326-1
- Weight: approximately 135 g
- Housing material: ASA

OPERATING CONDITIONS

Temperature range: -30 to +80 °C

Relative humidity range: 0 to 100 %RH (no condensation)

END OF OPERATION

Dispose of the device according to statutory regulations.

TECHNICAL SUPPORT AND SERVICE

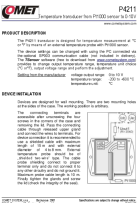
Technical support and service is provided by distributor. For contact see warranty certificate. You can use discussion form at web address www.forum.cometsystem.cz

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Documents / Resources

	<p>COMET T4211 Temperature Transducer Sensor [pdf] Instruction Manual T4211, P4211, T4211 Temperature Transducer Sensor, Temperature Transducer Sensor, Transducer Sensor, Sensor</p>
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References

- [Manufacturer of Dataloggers, Thermometers, Hygrometers, CO2 meters](#)
- [Manufacturer of Dataloggers, Thermometers, Hygrometers, CO2 meters](#)
- [Comet system forum](#)
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