

MTX-Sensor TEMP

For living areas, warehouses, servers...

It allows transmission of the measured data to a PC. The data is transmitted via ASCII protocol, within which the temperature values are given directly in Celsius degrees. The sensor is connected to a PC via a standard RS232 serial port. The accuracy of this sensor is $\pm 0.5^{\circ}\text{C}$ within temperature range from -10 to 85°C ; the measurable range is from -55 to 125°C .



Features

- Range from -55 to 125°C , with 0.1°C resolution
- ASCII, no need to recalculate values
- Connection to the serial port RS232 of a PC
- No need for a power supply

Applications

- Temperature measurement in living areas, warehouses, server rooms and on production premises
- Measurement of outdoor temperature

Specifications

Range	-55 to 125°C
Accuracy	$\pm 0.5^{\circ}\text{C}$ within range from -10 to 85°C and $\pm 2^{\circ}\text{C}$ outside of this range
Resolution	0.1°C
Operating temperature	-40 to 85°C
Communication	ASCII, described below
Measurement speed	The first measurement within 1 sec, subsequently once per 10 sec $\pm 2\%$
Communication line	RS232 (simplified)
Communication parameters	9600 Bd, 8 bits, 1 stop-bit, parity-none

Functions

DESCRIPTION OF FUNCIONS

The temperature sensor is supplied with power from the serial port to which it is connected. As soon as the DTR signal is set on the port, the sensor measures the temperature value and sends it to the connected PC as an ASCII character string. If the DTR signal remains active, the sensor measures and sends the temperature value every 10 seconds. The yellow indicator on the connector is lit when the actual measurement is being taken. The standard workmanship of the sensor is mainly used for the measurement of air temperature.

CONNECTOR SPECIFICATION

The sensor is connected to a PC serial port with a CANNON 9 connector. A standard 9/25-pin adapter must be used if the PC's serial port is equipped with CANNON 25.

Pin	Signal
2	RxD – data from the sensor – temperature values
4	DTR – sensor power supply and control
5	GND – signal grounding

References

- MTX-Sensor TEMP - RS232 - DB9 F - 3m

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