

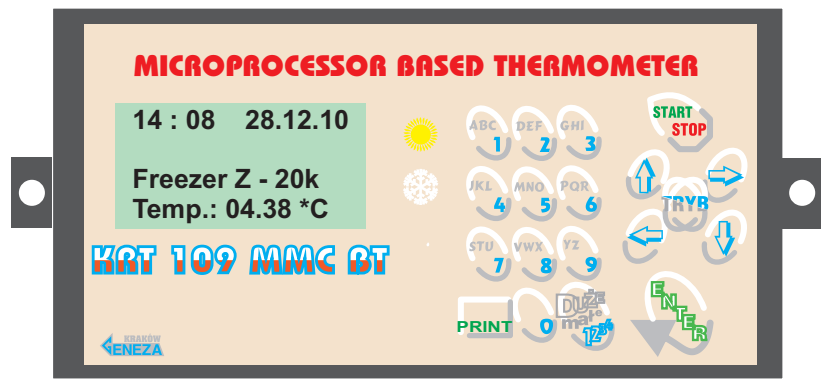


Since 1990

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Microprocessor based Thermometer/Logger Model KRT 109 MMC BT



Description.

Microprocessor based THERMOMETER model KRT - 109 MMC BT is a modern device designed to measure temperature and is also able to record measured result in its internal, nonvolatile memory or print them on a portable printer PORTI S30/40. Through RS-232 or RS-485 socket it can communicate with a PC computer. RS-485 socket allows to connect up to 32 units of KRT - 109 MMC BT to only one computer PC by a triple wire line.

Internal, nonvolatile, memory enable to record up to 50 000 records at intervals ranging from 1 minute to 99 hours. Results recorded in the internal memory might be transferred to the computer PC directly connected to the KRT - 109 MMC BT's RS-232 output.

In the field operation, a portable, battery powered printer can be directly connected to the KRT - 109 MMC BT thermometer. The user can select chart or graphs printout using a thermohygrometer's keyboard. This sophisticated thermometer covers temperature range from **-90°C to +300°C** with resolution 0.02°C.

Higher accuracies, greater than typical electronic thermometers are achieved through a unique linearising technique.

Application of the internal microprocessor ensure a minimal measuring error and a large alphanumeric easy-to read LCD display enable simply read-out results. Nonvolatile memory stores setup conditions (RS-232, log intervals, probes calibration etc) and also user's settings selected from the keyboard. The meter also includes a real time clock which shows time, day month and year. The meter accepts up to **four** temperature probes with very long cables (up to 100 meters each).

The KRT - 109 MMC BT features a quick disconnect panel input for all probes. The model KRT - 109 MMC BT also contains visual alarms. Simultaneous alarm points for temperature are user selectable. When the current condition exceed any of the preset values, special icons on the front panel lit.

This model also features the special port to **connect the Bluetooth device** in order to transfer data to PC wirelessly. Easy routine maintenance and small size provides an excellent comfort of recording and wide application in scientific research, environment measurement, food industry and many others.

Technical data:

- Input : Pt-100 temperature probe (4 wire)
- Distance between probes and meter: up to 100 meters
- Temperature probe calibration: automatic matching at 0°C
- Temperature measuring and logging range : **-90°C do +300°C**
- Resolution of current temperature : 0,02°C
- Accuracy of temperature measurement: ± 0,15 % of the range
- Log interval: from 1 minute to 99 hours (programmable through the meter's keyboard)
- Start/End of the logging: through the meter's keyboard
- Connection to PORTI S30/40 printer : RS-232 port on the KRT - 109 MMC BT housing
- Communication with computer PC : RS - 232 (distance to computer PC up to 4 meters)
industrial RS - 485 - special converter necessary - (distance from computer PC up to 500 meters)
- Temperature display: 4 x 16 alphanumeric LCD display
- Device status display: 4 x 16 alphanumeric LCD display
- Switching of measuring channels: through meter's keyboard
- Data logging (programmable by the user):
 - 1.storing in the nonvolatile, internal memory (up to 50 000 logs for a channel) and further transferable to the PC and/or to the **portable printer** with the time and date stamp as a chart or graphs
 - 2.On-line output to the PC through RS-232 serial interface or RS-485 industrial interface for further analysis, storage and hard copy printouts
- Power: 9 V or 12V dc or 230 V ac through an adapter
- Housing: black plastic adapted to be hanged on a wall
- Dimensions: L200 x H95 x D37 mm