

MULTI-CHANNEL TEMPERATURE DATA LOGGER

type WRT-9

page 1 of 2

type WRT-9-BOX



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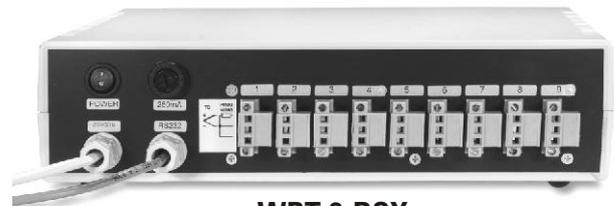


WRT-9



WRT-9-BOX

front view



WRT-9-BOX

rear view

WRT-9 is a universal temperature data logger. It can measure temperature at a maximum of 9 points. The logger can be used with a wide assortment of thermocouples and resistance temperature detectors. It is designed for use with 2 or 3-wire RTD sensors.

There are two options when ordering WRT-9:

- 1) as two separate devices: PMP-201 and EMT-200 designed for installation in a control panel (WRT-9)
- 2) in common desktop case, with power supply and communication cable (WRT-9-BOX).

The set includes software for PC (Windows® application program). It has the following features:

- each channel can be labeled separately,
- actual temperature of each channel can be shown on-line,
- all the data can be stored in a file and can be browsed off-line,
- graphs of temperature vs. time can be printed out,
- files with the stored data have format that can be easily imported in many PC programs (for example in Excel),
- time interval between sequential measurements can be adjusted,
- alarm thresholds can be set separately for each channel.

The latest version of the software can be downloaded from our website www.czaki.pl.

Collected data is systematically saved on the computer disc. This is saved in text form, making later processing is very simple. Alarm functions allow supervision of many channels simultaneously and the monitoring of out of limits temperature events both up and down.

The software functions also with older PCs. It accepts Windows® operating systems: 98, 2000, XP, VISTA, 7, 8 and 10.

WRT-9 requires serial interface RS-232 or RS-485 for data transmission. Czaki IF-232U or IF-485U serial USB converters can be used.

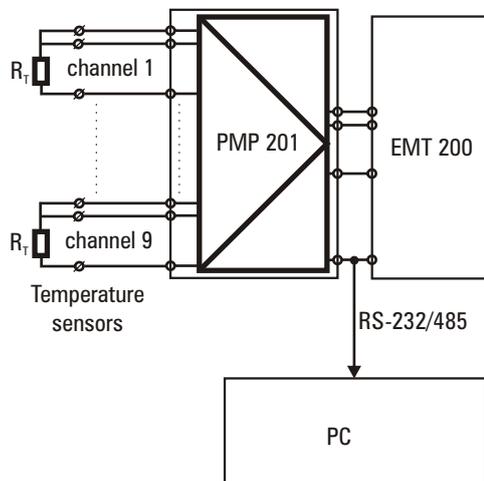
Typical application of the logger is the temperature monitoring of industrial processes.

It is widely used for temperature measurements in many industries.

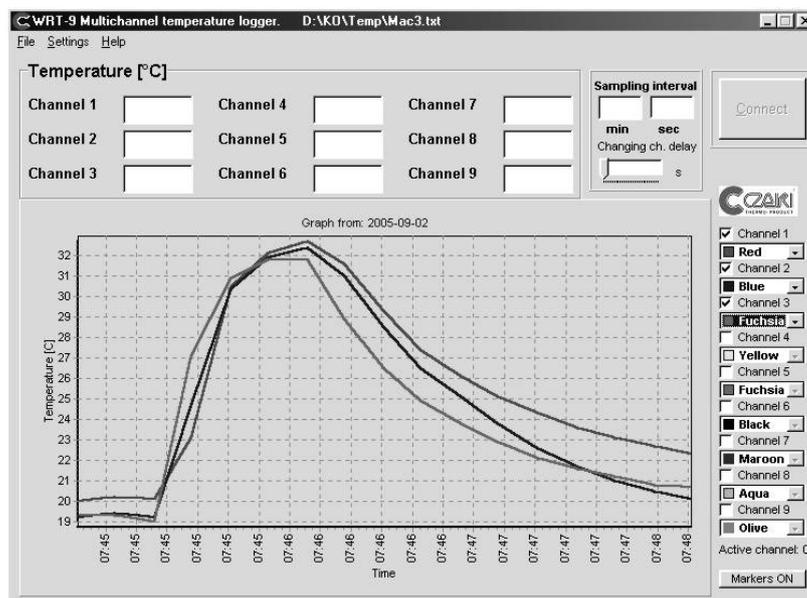
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page 2 of 2



Simplified diagram of WRT-9



Program application window

TECHNICAL DATA

Maximum number of channels	9
Minimal time for one measurement	4 sec.
Interface type	RS-232 - standard, RS-485 - on demand
Input sensor type, measuring range	according to the table
Resolution	0,1°C up to 400°C; 1°C over 400°C
Standard power supply	230 V AC +10% -15%, 50 Hz, 6 VA
Optional power supply	24 V AC, 24 V DC, 12 V DC, 110/115 V AC
Ambient temperature	0°C... +45°C
RS-232 / RS-485 speed transmission	2400 bps
Dimensions (height x width x depth) / weight	70 x 260 x 210 mm / ca. 1400 g (WRT-9-BOX) 48 x 96 x 145 mm / ca. 400g (x2) (WRT-9)
Other parameters	like EMT 200 and PMP 201
RS-232 cable length	1,5 m (WRT-9-BOX), other values on demand
Power supply cable length	1,5 m (WRT-9-BOX)
Additional accessories	IF-232U converter, IF-485U converter

Sensor type	Range [°C]
B PtRh30-PtRh6	400...1800
R PtRh13-Pt	200...1600
S PtRh10-Pt	200...1600
N NiCrSi-NiSi	-100...1300
K NiCr-NiAl	-100...1200
J Fe-CuNi	-100...1000
T Cu-CuNi	-100...230
Pt100⁽¹⁾	-100...850
Ni100⁽¹⁾	-60...180

⁽¹⁾ 2 or 3-wire connection

ORDERING CODE



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|---|--|
| (1) Common case | BOX |
| (2) Serial interface, if other then RS-232 | RS-485 |
| (3) Supply voltage, if other then 230 V AC | 24VAC, 24VDC, 12VDC, 110/115VAC |
| (4) RS-232 cable length (for WRT-9-BOX) if other then 1,5m) | |
| (5) Additional accessories | IF-232U, IF-485 |

Example for order: WRT-9-BOX means multi-channel temperature data logger in desktop case.
 WRT-9-485 means multi-channel temperature data logger for panel mounting with RS-485 interface.