CZAKI THERMO-PRODUCT
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PANEL THERMOMETER

type EMT-200

☐ for use with a wide assortment of temperature sensors

☐ range overload and sensor fault indication

☐ two programmable multifunction alarms with relay outputs

☐ RS-232 or RS-485 communication interface galvanically separated from input circuit

☐ data logging software for PC: **Logger** and **Logger-9**

☐ configuration via front panel keyboard or interface

☐ access control function

The EMT-200 type is a microprocessor thermometer designed for installation in a control panel. It is used with a wide assortment of RTD and thermoelectric temperature sensors. It is equipped with two multifunction programmable alarm circuit to control output relays. The EMT-200 thermometer is easy to program. Menu driven operating commands are displayed on a dual 4-digit LED to allow easy setting of process parameters. This thermometer has a built-in serial communication interface which allows reading and programming of the process parameters by a computer. A printer with a serial input can be connected to the EMT-200 type thermometer directly. It has built in non-volatile memory for 300 measurement results. The access control function provides protection from un-authorized operators. Windows® application program **Logger** allows for the visualization of the temperature read out on the screen of the monitor, printing graphs and saving to the file. Program **Logger-9** enables the simultaneous visualization for several (at most 9) EMT-200-RS-485 thermometers connected to a common RS-485 bus. It is possible to order the CD-ROM with both applications for extra charge, or free of charge download from the web page www.czaki.pl.
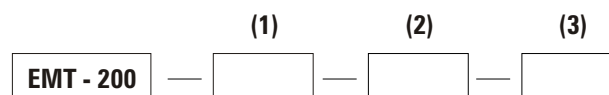
TECHNICAL DATA

Sensor type, measuring range	according to the table
Resolution	0,1°C up to +400°C
	1°C over +400°C
Accuracy (T_A = 23°C ± 5°C)	± (0,002 × $\|T\|$ +0,3°C +1 digit)
	T - read temperature value
Pt100, Ni100 bias current	0,2 mA
Display	LED, height of digits 13 mm, red
RS-232 / RS-485 speed transmission	600, 1200, 2400, 4800, 9600 bps
Alarm outputs (2 independent)	SPDT relay contacts 5 A, 250 V AC / 24 V DC
Standard power supply	230 V AC +10% −15%, 50 Hz, 3 VA
Optional power supply	24 V AC, 24 V DC, 12 V DC, 110/115 V AC
Ambient temperature T_A	0°C...+45°C
Mounting window dimensions (height x width)	44 x 91 mm
Dimensions (height x width x depth) / weight	48 x 96 x 128 mm / 400 g

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

		(1)	(2)	(3)
EMT - 200	—	☐	— ☐	— ☐

(1) Serial interface, if other then RS-232   **RS-485**
(2) Power supply, if other then 230 V AC   **24VAC**, **24VDC**, **12VDC**, **110/115VAC**
(3) Additional accessories   **LOGGER** - CD-ROM with applications: Logger and Logger-9

Example for order: EMT-200-RS-485 panel thermometer for use with Pt100, Ni100 resistance sensors and thermocouples: T, J, K, N, S, R, B equipped with serial communication interface RS-485.