

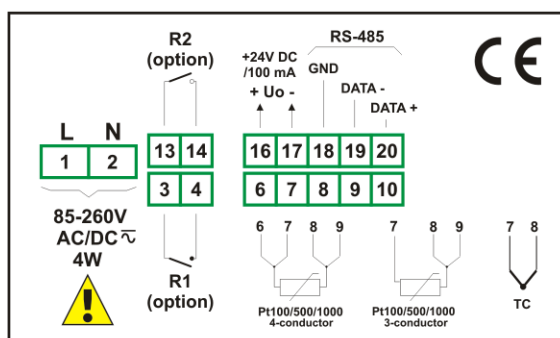
PAC-77T

- process meter with 2 displays
- input: thermoresistance or thermocouple
- 0, 1 or 2 relay outputs (or OC type)
- power supply output: 24V DC
- RS-485 / Modbus RTU

The PAC-77T temperature meter has one input: thermoresistance (Pt100/500/1000) or thermocouple (K, S, J, T, N, R, B, E). Measurement is linearised by the polynomial characteristics. The device with thermocouple input has additional measurement range (-10 ÷ 90 mV) mainly for diagnostics of measurement circuits. The main advantage of regulator are two rows of display. The first one presents measuring value, second one - programmed values: max and min. 1 or 2 relay (or OC) outputs make it possible to control heating / cooling processes. The RS-485 enables data transmission in production process monitoring systems.

- programmable hystereses and delays of control outputs,
- password protected,
- programmable indication filtration,
- automatic recognition of 3 and 4-conductor connection (Pt inputs),
- automatic compensation of TC cold ends temperature,
- alarm diode and acoustic signal in case of sensor damage.

Exemplary pin assignment



Ordering

PAC-77T-1XXX-1-X-XX5-N1

options:

- 00 : no options
- 01 : IP 65

power supply:

- 3 : 24V AC/DC
- 4 : 85...260V AC/DC

type of outputs:

- 0 : no output
- 1 : REL
- 2 : OC

number of outputs:

- 0
- 1
- 2

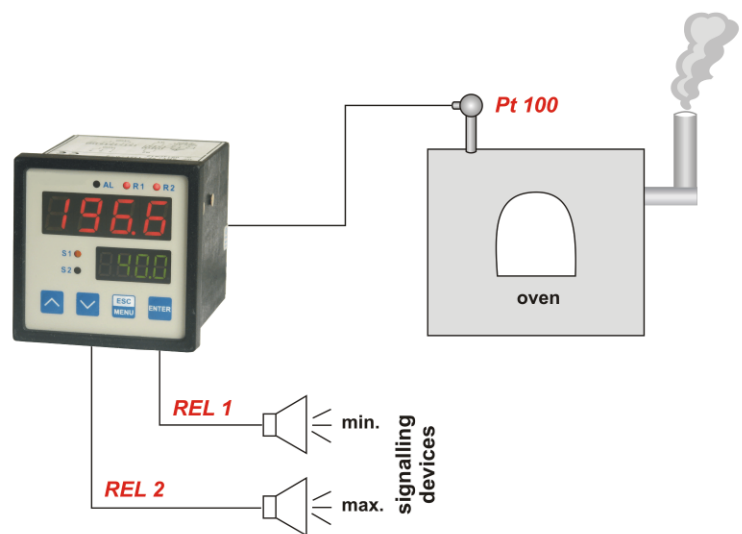
type of input:

- 3 : thermoresistance
- A : thermocouple



Typical applications

1. Measuring of oven temperature in a boiler room with acoustic signalling when alarm states are overflow, readable indicating of alarm thresholds.



Technical data

Power supply: 19... 50V DC; 16...35V AC or 85... 260V AC/DC

Power consumption: for 85...260V AC/DC and 16...35V AC power supply:

max. 4,5 VA; 19...50V DC power supply: max. 4,5 W

Display: LED, double 4 x 13 mm (red) and 4 x 10 mm (green)

Input:

thermoresistance: Pt100, Pt500, Pt1000 (automatic recognition of 3 and 4-conductor connection, resistance compensation of connecting conductors from 0 to 20 Ω at any conductor); measuring range: -100...600°C; resolution: 0,1°C

thermocouple: type K, S, J, T, N, R, B, E; measuring range: **K**: -200...1370°C;

S: -50...1768°C; **J**: -210...1200°C; **T**: -200...400°C;

N: -200...1300°C; **R**: -50...1768°C; **B**: +250...1820°C;

E: -200...1000°C; resolution: 1°C, additional range -10...90 mV

Accuracy (25 °C): ± 0,1 % FSO

Tolerance band (0...50°C): max. 0,25 % FSO

Outputs: 0, 1 or 2 relays 1A/250V AC (cosφ=1) or OC 30mA/30VDC/100 mW

Transducer power supply output: 24V DC +5%, -10% / max. 100 mA, stabilized, not insulated from measuring inputs

Communication interface: RS-485, 8N1 and 8N2, 1200 bit/s...115200 bit/s, Modbus RTU (not galvanically isolated)

Operating temperature: 0...50°C

Storage temperature: -10...70°C

Protection class: IP 65 (front side when an additional frame is installed); IP 40 (front side); IP 20 (case and connection clips)

Case: board

Case material: NORYL - GFN2S E1

Case dimensions: 72 x 72 x 100 mm

Panel cut-out dimensions: 66,5 x 66,5 mm

Board thickness: max. 5 mm