

## PAC-73T

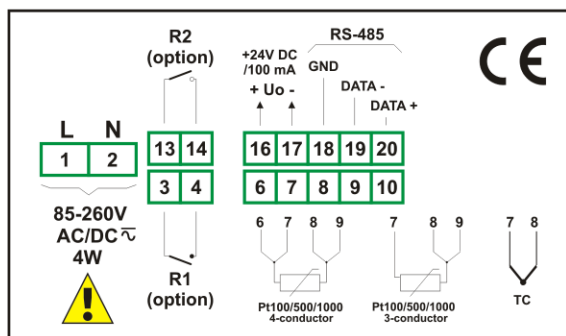
- temperature meter in a small case
- input: thermoresistance or thermocouple
- 0, 1 or 2 relay outputs (or OC type)
- two-coloured display (standard version)
- power supply output: 24V DC
- RS-485 / Modbus RTU



Easy programming and installation, small size and high reliability are basic advantages of the PAC-73T temperature meters. They have 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. 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,
- versions available with AC and DC power supply,
- 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-73T-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:

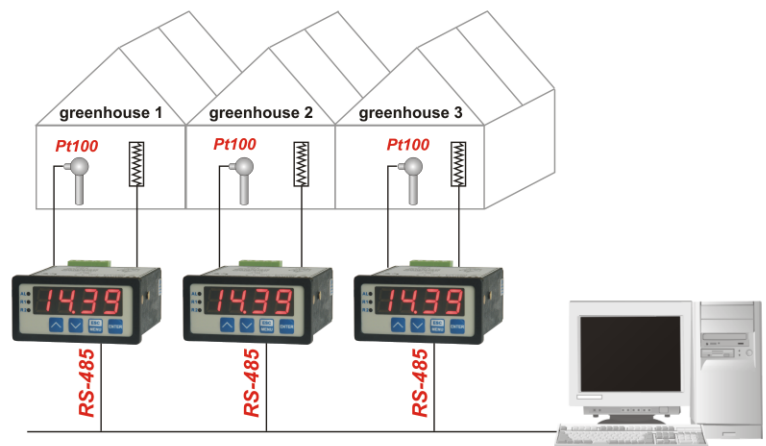
- 0

#### type of input:

- 3 : thermoresistance
- A : thermocouple

### Typical applications

1. Temperature adjustment in greenhouses performed from the central computer via an RS-485 interface; process visualization possible.



### 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, two-coloured (red-green), 4 x 13 mm (IP 40) - standard or LED, red, 5 x 9 mm (IP 65) - option

#### 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:** (depending on display size) IP 65 for 5 x 9 mm display (front side when an additional frame is installed); IP 40 for 4 x 13 mm display (front side); IP 20 (case and connection clips)

**Case:** board

**Case material:** NORYL - GFN2SE1

**Case dimensions:** 72 x 36 x 97 mm

**Panel cut-out dimensions:** 66,5 x 32,5 mm

**Installation depth:** min. 102 mm

**Board thickness:** max. 5 mm