

# PAC-N118T

- temperature meter in wall-mounted case
- input: thermoresistance or thermocouple
- 0 or 2 relay outputs (or OC)
- power supply output: 24V DC
- RS-485 / Modbus RTU



IR programmer



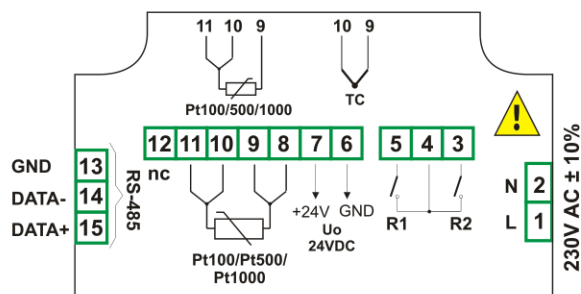
The PAC-N118T temperature meter features easy operation, functional programming menu and a clear 4-decade,

20-millimetre LED display. Tight case with high protection class (IP 65) makes it an ideal choice for heavy-duty applications. Relay (or OC) outputs enable adjustment of the level of the measured signal. These outputs can be controlled according to one or two threshold values.

The settings can be changed without opening the tight case, by an infrared remote control.

- programmable hystereses and delays of control outputs,
- programmable indication filtration,
- signal peak value detection,
- automatic recognition of 3 and 4-conductor connection (thermoresistance input version),
- automatic compensation of TC cold ends temperature,
- alarm diode and acoustic signal in case of sensor damage,
- available with AC and DC power supply versions.

## Exemplary pin assignment



## Ordering

**PAC-N118T-1XXX-1-X-XX5-N1**

### options:

- 00 : no options
- 08 : operating temp. -20...50°C

### power supply:

- 1 : 24V DC
- 2 : 230V AC
- 8 : 110V AC

### type of outputs:

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

### number of outputs:

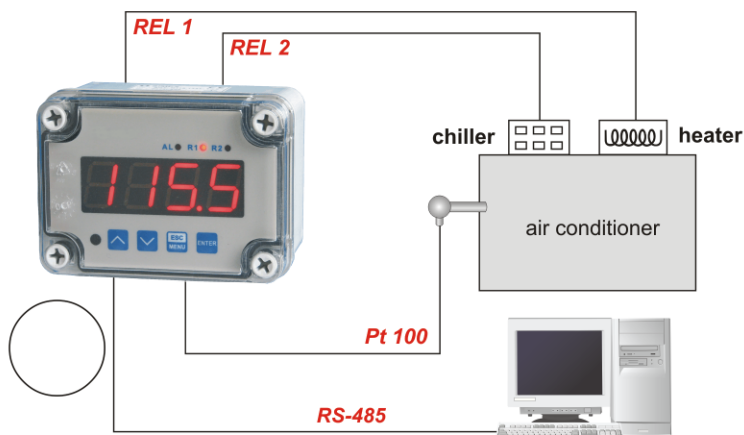
- 0
- 2

### type of input:

- 3 : thermoresistance
- A : thermocouple

## Typical applications

1. Temperature measurement in the air conditioner, featuring chiller and heater control in the circulating system.
2. Can be installed in any place where the control cabinets are not necessary and in high humidity / dustiness environments.



## Technical data

**Power supply:** 110V AC  $\pm 5\%$ , 230V AC  $\pm 10\%$  or 24V DC (non separated)

**Power consumption:** for 110V AC and 230V AC: max. 2,6 VA; for 24V DC: max. 4,5 W

**Display:** LED, red, 4 x 20 mm high

### Input:

thermoresistance: Pt100, Pt500, Pt1000 (automatic recognition of 3 and 4-conductor connection, resistance compensation of connecting conductors from 0 to 20  $\Omega$  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°C...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):**  $\pm 0,1\%$  FSO

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

**Outputs:** 0 or 2 relays 1A/250V AC ( $\cos\phi=1$ ) or the OC 30mA/30VDC/100mW

**Transducer power supply output:** 24V DC, non-stabilized, not insulated from measuring inputs; for 230V and 110V AC power supply:  $\pm 3V$  max. 25 mA; for 24V DC power supply:  $\pm 15\%$  max. 100 mA

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

**Operating temperature:** 0...50°C (standard), -20...50°C (option)

**Storage temperature:** -10...70°C

**Protection class:** IP 65

**Case:** wall-mounted

**Case material:** ABS + glass fibre

**Case dimensions:** without glands: 110 x 80 x 67 mm; with glands: 110 x 105 x 67 mm

## Accessories



IR programmer PMT-15