H2T PtJK-2P4A

VE250700



Digital panel-mounted temperature controller (48x48) for temperature control in both heating and cooling mode. The device can be connected to Pt100 resistance temperature detectors, thermocouples (J, K, S), and linear sensors.

General features

- 2 LED displays to show temperature values, set parameters and output/alarm status
- Keys for device parameter setting
- Screw terminal block
- Heating or cooling operation mode can be set
- Automatic PID parameter calculation
- Absolute or relative, minimum or maximum alarm or window-alarm
- Possibility of selecting which parameters to protect via password

Technical specifications

Power supply	
Power supply	100 ÷ 240 Vac (-10% ÷ +10%)
Frequency	50 / 60 Hz
Absorption	~5 VA
Parameter settings	
Type of adjustment	ON-OFF or PID
Measure	
Temperature measuring range with external probe	-200 ÷ 850 (con sonda Pt100) °C 0 ÷ 1000 (con sonda J) °C 0 ÷ 1370 (con sonda K) °C 0 ÷ 1760 (con sonda S) °C
Temperature display resolution	1 (with thermocouples) °C 0.1 or 1 (with Pt100 probes) °C 0.001 or 0.01 or 0.1 or 1 (with standardised sensors) °C
Temperature measurement accuracy	±0.5% of full scale °C (±1% f.s. for signals 0÷50 mV, 0÷60 mV, 12÷60 mV) °C
Functions	
Keypad lock function	✓

Vemer S.p.A. declines all responsibility for the use of the products for purposes other than those for which they are intended, as indicated in the technical documentation. Vemer S.p.A. reserves the right to make, without prior notice, such changes as may, in its sole discretion, improve the technical and functional characteristics of the products and the related production logic. The technical characteristics and images of the products indicated are given for information only and are not binding in any way, since they may be modified without prior notice.

Revision date: 2026-02-02

Operating conditions	
Operating temperature range	0 ÷ 50 °C
Relative humidity	30% ÷ 95% non-condensing RH
Viewing	
Display	1 red LED 1 green LED
Digits number	4 + 4
Inputs	
Number of connectable probes	1
Type of connectable probes	Pt 100 (2 or 3 wires) J (Fe-CuNi) K (NiCr-Ni) S (Pt10Rh-Pt) N (NiCrSi-NiSi) Standardized sensors (output 0÷50 mV, 0÷60 mV, 12÷60 mV)
Outputs	
Relay number	2
Relay type	Normally open
Relay capacity at 250 Vac	8 A
Terminations	
Termination type	Terminal blocks
Maximum cable cross-section	2.5 mm²
Mechanical features	
Protection degree	IP54
Overall dimensions	
Height (A)	48 mm
Width (B)	48 mm
Depth (C)	107.5 mm
Dimensions	
Product weight	150 g

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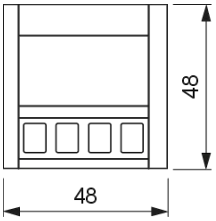
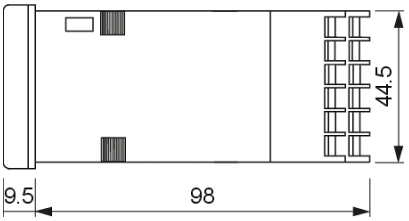
Dimensions

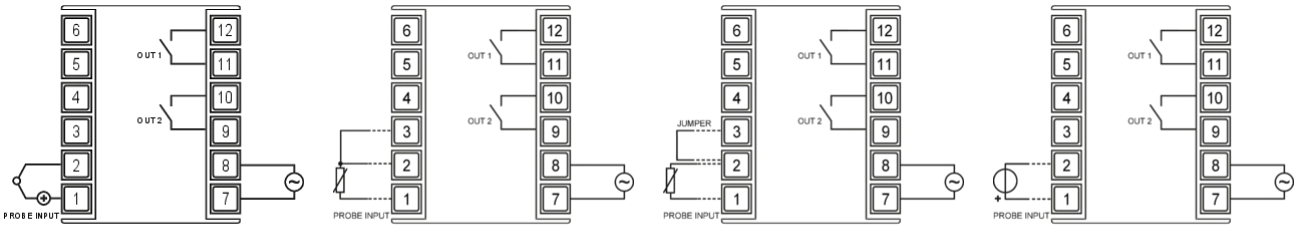
Front View



Side View



Wiring diagram



Model variants

H2T Pt-JK P4D

Panel-mounted digital temperature controller (48x48) connectable to thermocouples, resistance temperature probes or probes with output signals.

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Accessories compatible with the product

Fe-Co (J)

VJ44330000

2-wire J-type thermocouple for temperature detection, length 3 m

Cr-Al (K)

VJ44410000

2-wire type K thermocouple for temperature detection, length 3 m

Cr-Al 1200 (K)

VJ44900000

2-wire type K thermocouple for temperature detection, length 3 m

Pt 100

VJ44250000

Pt100 RTD sensor, Platinum, 3-wire, for temperature measurement, 3 m length

Pt 100 10MT

VJ44250010

Pt100 RTD sensor, Platinum, 3-wire, for temperature measurement, 10 m length

Pt 100 E

VN879300

Pt 100 E length 1.5 m

Pt 100 EC

VE122800

Pt100 EC RTD sensor, Platinum, 2-wire, for temperature measurement, 1.5 m length

Reference standards

Compliance with Community Directives:

• 2014/35/UE (LVD) • 2014/30/UE (EMCD) • 2011/65/UE e 2015/863/UE (ROHS)

is declared with reference to the following Standards:

• EN 61010-1 • EN IEC 61326-1 • EN IEC 63000

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