HT JK-1DA

VM644200



Digital DIN-rail mounted temperature controller (4 modules) for both heating and cooling temperature control in applications such as ovens and burners. The device can be connected to type J, K, L, R, S, T, E, and N thermocouples.

General features

- Automatic cold junction compensation
- Possibility of selecting the probe type
- Password protection for stored settings
- Parameter setting in digital mode:
  - Set-point
  - Differential
  - Neutral zone
  - Output actuation times
  - Function and digital input delay time
  - Alarm delay time
  - Probe calibration OFFSET
  - Displayed resolution
  - Temperature measurement unit
  - Measurement display filter (refresh rate)
  - Probe input type
- Modes of operation (regulation)
  - ON/OFF heating or cooling (with or without Neutral Zone)
  - PWM Direct, Reverse and Neutral Zone action
  - ALARM
  - Cooling mode
  - Special mode
- Digital input with configurable function:
  - external alarm
  - ON/OFF regulation
  - probe selection to display
  - set-point switching
  - Direct/Reverse switching
- Acoustic and visual alarm signalling for:
  - external alarm (digital input)
  - probe alarm (malfunction)
  - minimum or maximum alarm

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

Technical specifications

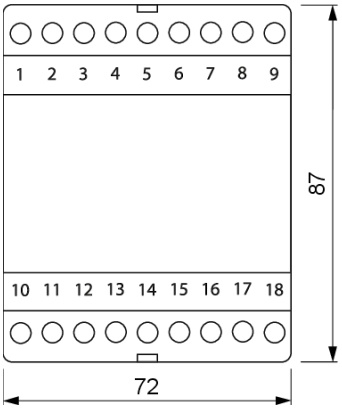
Power supply	
Power supply	24 / 230 Vac (-10% ÷ +10%)
Frequency	50 / 60 Hz
Absorption	4.5 VA
Measure	
Temperature display resolution	0.1 (for values in the range -9.9 ÷ 99.9) °C 1 (for values <-9,9 and > 99.9) °C
Temperature measurement accuracy	± 0.5 % of full scale value ± 1 digit °C
Functions	
Keypad lock function	✓
Probe alarm buzzer	✓
Functional characteristics	
Temperature display range	-99 ÷ 999 (depending on probe selected) °C
Operating conditions	
Operating temperature range	0 ÷ 50 °C
Relative humidity	< 80% RH
Storage temperature range	-25 ÷ 70 °C
Viewing	
Display	Red LEDs
Digits number	3
Display range	-99 ÷ 999 °C *
Inputs	
Digital input	✓
No. digital inputs	1
Auxiliary input features	Configurable
Number of connectable probes	1
Type of connectable probes	J (Fe-CuNi) K (NiCr-Ni) L (Fe-CuNi) R (Pt13Rh-Pt) S (Pt10Rh-Pt) T (Cu-CuNi) E (NiCr-CuNi) N (NiCrSi-NiSi)
Outputs	
Relay number	1
Relay capacity at 250 Vac	8 A

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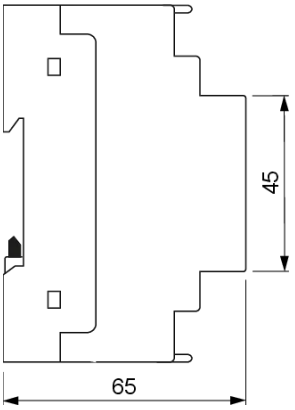
Mechanical features	
Protection degree	IP40 (on the front) IP20 (on terminals)
Overall dimensions	
Height (A)	87 mm
Width (B)	72 mm
Depth (C)	65 mm

Dimensions

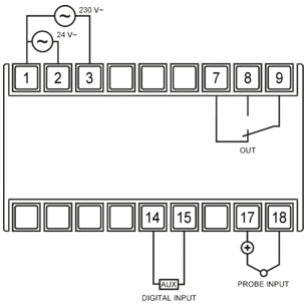
Front View



Side View



Wiring diagram



Probe input:

- TC

Product variants

HT JK-2DA

VM645900

DIN-rail mounted digital temperature controller (4 modules) connectable with J, K, L, R, S, T, E, N thermocouple probes, 24/230 Vac, digital input, with 2 relays

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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

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 IEC 60730-2-9 • EN IEC 63000

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