HT NTC-1P7A

VM632700



Digital panel-mounted temperature controller (72x72) for temperature control in both heating and cooling in applications such as refrigerated counters, cold storages and room temperature. The device can be connected to NTC thermistors.

General features

- 2 probe inputs for measuring two temperatures (one probe for regulation, the other for display)
- LED indicating T2 temperature display
- 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
- Acoustic and visual alarm signalling for:
  - probe alarm (malfunction)
  - minimum or maximum alarm

Technical specifications

Power supply	
Power supply	24 / 230 Vac (-10% ÷ +10%)
Frequency	50 / 60 Hz

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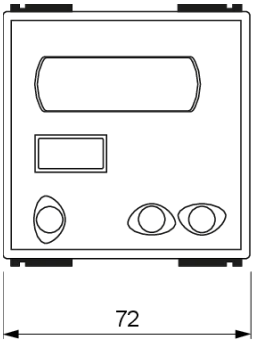
Revision date: 2026-02-02

Power supply	
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	-40 ÷ 110 °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	
Number of connectable probes	2
Type of connectable probes	NTC (10 kΩ at 25 °C)
Outputs	
Relay number	1
Relay capacity at 250 Vac	8 A
Mechanical features	
Protection degree	IP54 (on the front) IP20 (on terminals)
Overall dimensions	
Height (A)	72 mm
Width (B)	72 mm
Depth (C)	114 mm

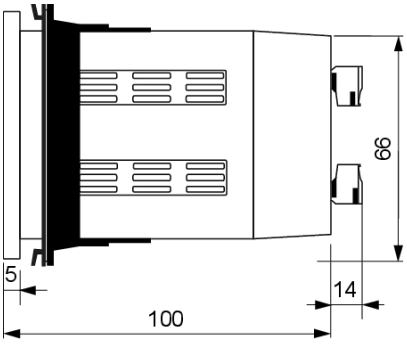
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Dimensions

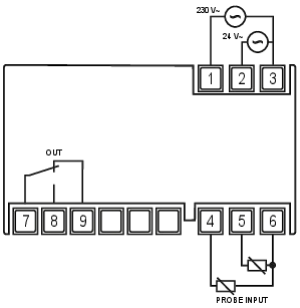
Front View



Side View



Wiring diagram



Probe input:

- NTC1
- NTC2

Product variants

HT NTC-2P7A

VM633500

Digital panel-mounted temperature controller (72×72) connectable with 24/230 Vac NTC resistance thermometer probes, with 2 relays

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Accessories compatible with the product

NTC C

VE123600

NTC C thermistor with a 2-wire NTC semiconductor sensor encased in eco-printed plastic for temperature detection, length 1.5 m

NTC BC

VE124400

NTC BC thermistor with a 2-wire NTC semiconductor sensor housed in eco-molded plastic and equipped with a cable, particularly suitable for measuring the temperature outside pipes; length: 1.5 m

NTC 3MT

VE152500

NTC RTD sensor, 2-wire, with NTC semiconductor for temperature measurement, 3 m length

NTC

VN870200

NTC RTD sensor, 2-wire, with NTC semiconductor for temperature measurement, 1.5 m length

EVAD

VJ44580000

Adapter for panel-mounted devices, from 72 × 72 mm to 96 × 96 mm.

EVCOP

VJ44820000

Protective cover for panel-mounted devices, 72×72 mm.

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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