

Temperature controller

Two-point single-board controller for heating or cooling

UETR-P2448-KIT / Order designation: 9438

UETR-P2448-INT / Order designation: 9439
Assembly ex works in the Peltier cooling units
100W / 110W / 155W / 215W



NTC 10 k Ω temperature sensor enclosed
(Temperature sensor connection PT100 and PT1000 prepared)

UETR-PARA-P2448 / Order designation: 9440

Parameterization device for temperature controller
(anodised housing with rotary / push-button controller)
for programming
of the two-point single-board controller



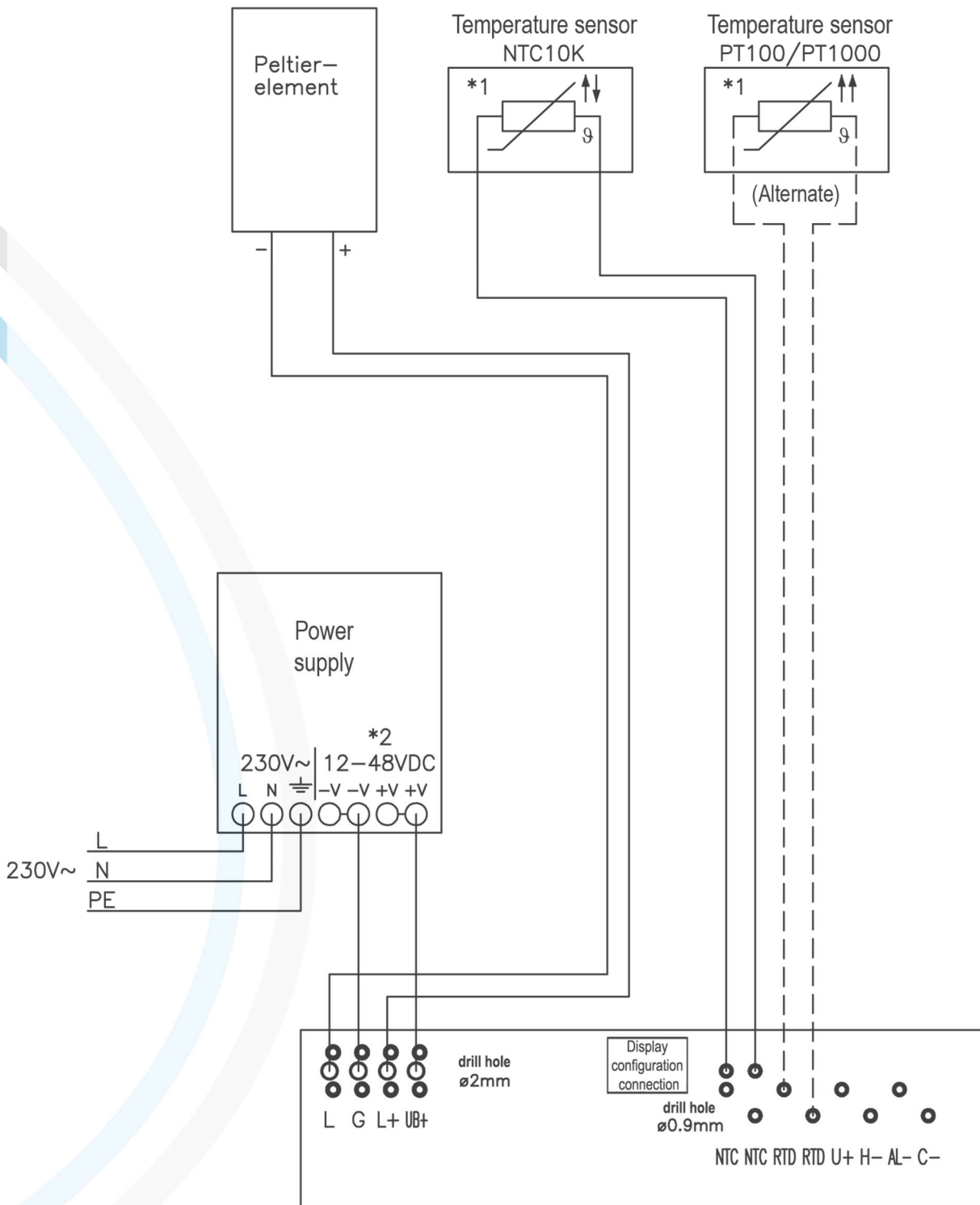
Load voltage (output)	10-48 V
Control voltage	10-48 V
Load current (output)	1-25 A
Dimension	94x34 mm
Height	10 mm
Operating temperature	0 bis 70 °C
Measuring range	0 bis 70°C
Hysteresis	1 bis 10 °C
Compliant	CE, RoHS

Note: The digital settings of the temperature controller are made via the parameterisation device UETR-PARA-P2448, which must be purchased separately. After consultation, the installation and configuration can be carried out ex works on the basis of the values you specify for the switching temperature, hysteresis and the desired current limitation.

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Solder connection: 10-48 VDC input and output



- *1: Only one sensor can be evaluated!
- *2: Voltage and power depending on the rated voltage and line of the consumer!

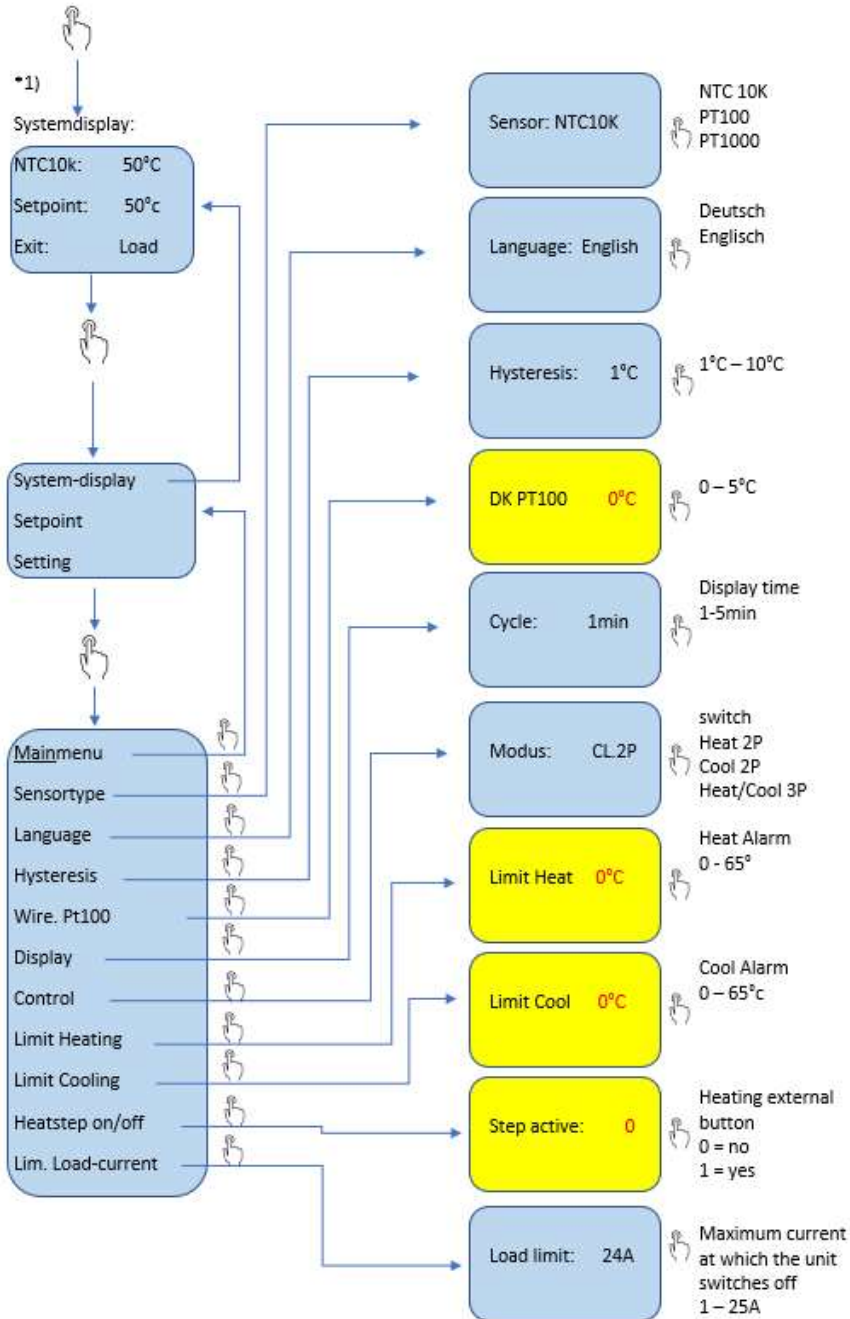


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Programming:

Menu 1-channel controller heating/cooling Rev. 04/2023



Note on the setting:

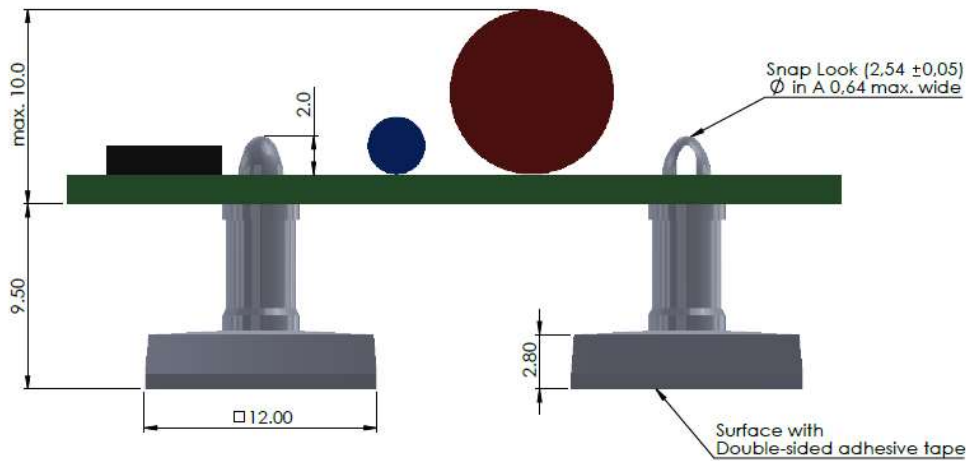
The fields marked in yellow can be set to 0 in normal cooling mode (CL.2P).
Likewise the wire compensation (DK PT100) for PT100 sensors.
The heating level On/Off (Active level) must be set to 0.



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Mounting socket:



Technical specification:

- NTC 10 kΩ temperature sensor enclosed, separate temperature sensor connection PT100 / PT1000 prepared.
- Temperature measuring resolution at 25 °C: ±0,4%
- Operating temperature 0 to 70°C (1°C Steps)
- Peltier cooling unit Connections:
(-) Peltier (black), (+) Peltier (red)
Nominal 24 V / 25 A up to ambient temperature of 50 °C
If the ambient temperature is higher than 50°C, the performance will be reduced.
- Indoor use
- Altitude up to 2.000 meter above sea level
Standard temperature 5 °C bis 50 °C
- Max. humidity 80 %, non-condensing
- Fluctuations of the supply voltage up to ± 10 % of voltage
- Storage capacity of the set values approx. 10 years in de-energized state
- RoHS conform

Order information:

Two orderable parts are available:

UETR-P2448-KIT – Order designation: # 9438

Retrofit kit for your own installation

UETR-P2448-INT – Order designation: #9439

Assembly ex works in the Peltier cooling units 100W / 110W / 155W / 215W

The installation and configuration of the two-point single-board controller is carried out ex works on the basis of the values you specify for the switching temperature, hysteresis and the desired current limitation.

The digital settings of the temperature controller are made via the UETR-PARA-P2448 parameterisation device, which can be purchased separately.

UETR-PARA-P2448 – Order designation: #9440