

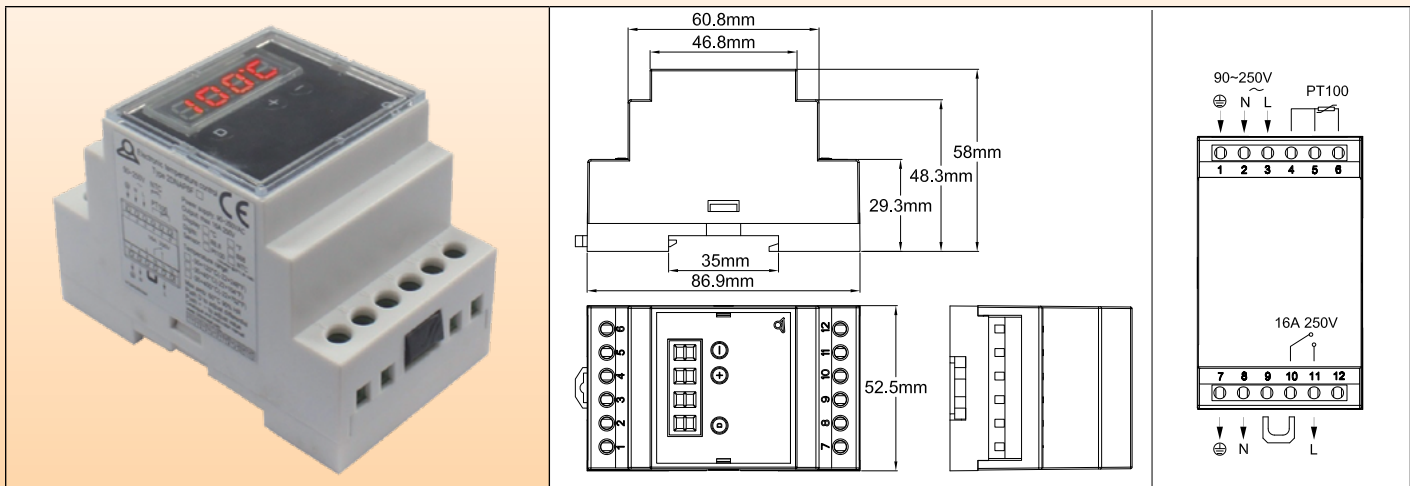


Electronic thermostats

Digital display electronic thermostat, 16A.

Type 2DNAP6

Dimensions



Applications

This electronic temperature controller with **the simplest and the most instinctive setting by end user** was designed for easy incorporation inside cabinets with DIN rail mounting. It can be used by untrained operators. It provides simple On Off action temperature control.

End user has access to set point and differential setting only.

Adjustment of maximum temperature can be set.

Main features

Dimensions: 86.9 × 58 × 52.5mm

Display: 3+1 digit LED. The fourth digit is used to display °C or °F.

Set point setting: in normal use, the display shows the measured temperature. Push “+” or “-” keys will display the set point value, and at that time it can be adjusted with “+” and “-” keys. No action during 5 seconds will register the new set point value and bring back display to measured value.

Temperature differential setting: in normal use, the display shows the measured temperature. Push “D” key will display the differential value, at that time it can be adjusted with “+” and “-” keys. Push “D” again or no action during 5 seconds will register the new differential value and bring back display to the measured value.

Action: On-Off

Temperature sensor: Pt100 (2 or 3 wires) or NTC 10Kohms @25°C, B= 3380 (2 wires).

Accuracy: +/- 1% of scale

Temperature adjustment ranges:

-30+120°C (-20+250°F), with 1° display

-30+200°C (-20+390°F), with 1° display

Power supply: 90 to 240V, 50Hz or 60Hz

Relay output: 16A 250V res., 100,000 cycles. Output Led displays relay position.

Maximum possible set point adjustment by user: push “D” button more than 10 seconds, display shows the maximum temperature that can be set by the user. Then it is possible to adjust this value with “+” and “-”. Push again on “D” or do nothing during 5 seconds will register the maximum possible setting value and control will come back to the measured valued.

Ambient: -20+60°C, 10-90% RH

Power: <4W

Fail safe safety:

- If no power supply, relay output contact will open.

- If Pt100 sensor or NTC is broken or not connected properly, relay output contact will open and display will show “EEE”.

- If measured temperature is higher than allowed by the set range, display will show HHH.

- If measured temperature is lower than -30.0°C or -20.0°F, display will show LLL.

Electrical connections:

- Power input: neutral, phase, ground, with 2.5mm² terminals.

- Power output: neutral, phase, ground, with 2.5mm² terminals for direct connection to the load.

- Temperature sensor: three 2.5mm² screw terminal.

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One removable jumper provides a potential free relay output for applications needing a separate circuit for relay, external timer or other.

Standards: comply with LVD, EMC (CE certificate by TUV), ROHS and Reach.

Main references

References	Temperature range	Sensor	Display
2DNAP6FA	-30+120°C	NTC	°C
2DNAP6FB	-20+250°F	NTC	°F
2DNAP6FI	-30+200°C*	Pt100	°C
2DNAP6FJ	-20+390°F*	Pt100	°F

* It is possible to unlock this value up to 400°C (750°F).

Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice