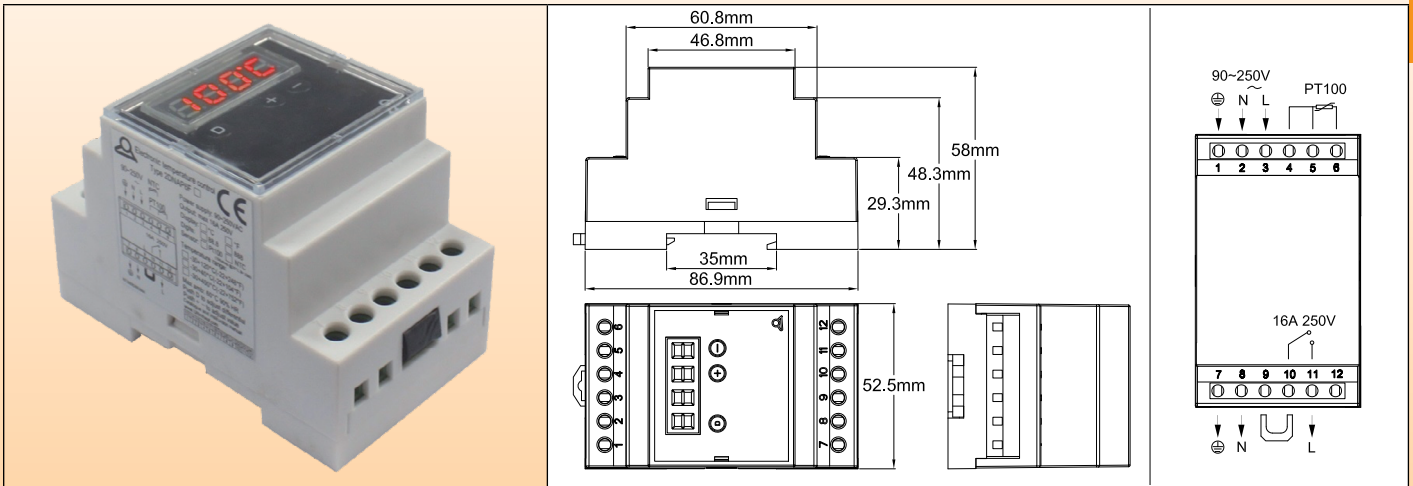


# Electronic thermostats

## 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 value.

**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 2.5mm<sup>2</sup> terminals.

- Power output: neutral, phase, ground, with 2.5mm<sup>2</sup> terminals for direct connection to the load.

- Temperature sensor: three 2.5mm<sup>2</sup> screw terminal.



# Electronic thermostats

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

