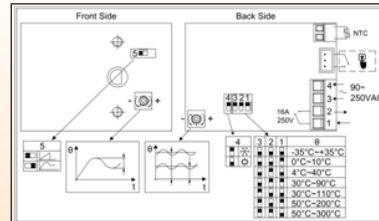
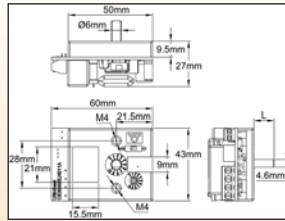


Electronic thermostat, multi range, control and manual reset action, for incorporation, Type: 2PE2N6



Main features

This electronic thermostat for incorporation has been designed to replace electromechanical thermostats. It is mounted with two screws M4 at the same distance 28 mm, uses a 6 mm dia. shaft with 4.6 mm flat with the same length, and its rotation angle is 270°. The temperature ranges are the same as the bulb and capillary thermostats, which he can use the graduated knobs. Its electrical rating (16A) is identical. It additionally features adjustable temperature differential, and heating or cooling relay output setting, and control or manual reset action can be set.

Action: On-Off

Temperature sensors:

- NTC thermistor, 10Kohms @25°C, B(25-50)= 3380, for temperatures ranges from -30°F (-35°C) to 250°F (120°C).
 - NTC thermistor, 500K@25°C, B(25-50)= 4260, for temperature ranges 120-390°F (50-200°C) and 120-570°F (50-300°C).

Accuracy: +/-1% of scale (NTC sensor tolerances not included)

Size: 60 x 43 x 23 mm

Temperature adjustment ranges:

Temperature range selection is made by dip switch on the printed circuit. 270° angulation set span

Control or manual reset selection: can be selected with a miniature dipswitch on the circuit

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

Relay output: SPNO, 16A250V res., 100000 cycles.

Relay action: Heating or cooling, open or close on temperature rise output relay action can be selected by a dip switch with access from front side

Ambiant: -20+50°C, 10-85% RH

Power: <2W

Electrical connections:

- Power supply and power relay: 2.5 mm² screw terminal

- Temperature sensor: 1.5 mm² screw terminal

- Manual reset: with miniature JST connector

Adjustment shaft: the thermostat is shipped with a dia. 6mm with 4.6 mm flat shaft, length 11 mm, assembled.

Included spare parts: a 28 mm shaft and a screw driver adjustment shaft.

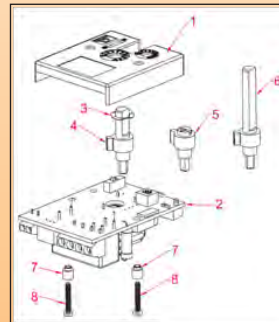
Standards: Comply with EMC (CE), ROHS and Reach

Reference	2PE2N6
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Parameters adjustment

Temperature differential: Adjustable, by potentiometer with front access

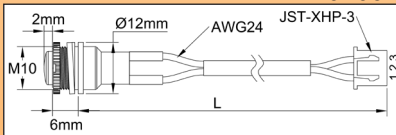
Temperature adjustment ranges °C (°F)	Differential adjustment °C (°F)
-35+35°C (-30+95°F)	0.5~5.5°C (0.9~10°F)
0-10°C (32-50°F)	0.5~2.5°C (0.9~4.5°F)
4-40°C (40-105°F)	0.5~2.5°C (0.9~4.5°F)
30-90°C (85-190°F)	0.5~5.5°C (0.9~10°F)
30-110°C (85-230°F)	0.5~5.5°C (0.9~10°F)
50-200°C (120-390°F)	0.5~5.5°C (0.9~10°F)
50-300 °C (120-570°F)	1~10°C (1.8~18°F)



- 1: Cover
- 2: Printed circuit
- 3: Elastic washer
- 4: 11 mm shaft fitted in standard
- 5: Screw driver shaft
- 6: 28 mm shaft
- 7: Plastic washer
- 8: Cover screws, (to unscrew to change shaft type)

Accessories (Must be ordered separately, not included in the electronic thermostat)

Manual reset switch



Wired switch for manual reset. Needs a 10 mm dia. hole in the mounting board.

Reference	2PMR100 (L=100 mm) Other length on request
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66MZ Soft grip printed knob references

°C Printing

-35+35°C	0-10°C	4-40°C	30-90°C	30-110°C	50-200°C	50-300°C
66MZ006-350352FW	66MZ0060000102FW	66MZ0060040402FW	66MZ0060300901FW	66MZ006031101FW	66MZ0060502001FW	66MZ0060503001FW

°F Printing

66MZ006-350352FX	66MZ0060000102FX	66MZ0060040402FX	66MZ0060300901FX	66MZ006031101FX	66MZ0060502001FX	66MZ0060503001FX

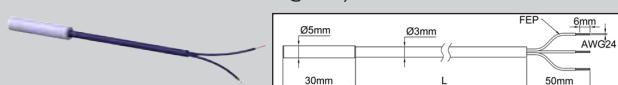
Knobs and bezels

Dimensions	References	Material
	66MZ.....	PC+Santoprene
	66EN1	Black ABS
	66EN3	Chrome plated ABS
	66EN2	Stainless steel

Many other knobs are available, see last section of this catalogue

Standard temperature sensor (For more models see catalogue N°3)

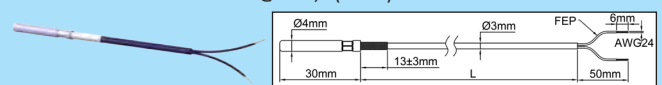
All ranges from -35°C to +110°C (-30+230°F)
 10Kohms @25°C, B= 3380



Accuracy: +/-2,5% on R25 e+/-2% on B
Temperature range: -20°C+120°C
Probe: Nickel plated copper, 6x30 mm
Cable: FEP, T200°C, length 2m
Polarity: non polarized

Reference	TNR60030C20001F
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Ranges 50°C-200°C(120-390°F) and 50°C-300°C (120-570°F)
 500K@25°C, B(25-50)= 4260



Accuracy: +/-2,5% on R25 e+/-2% on B
Temperature range: ambient to 300°C (570°F)
Probe: stainless steel, 4x30 mm
Cable: FEP, T200°C, length 2m
Polarity: non polarized

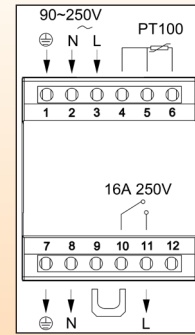
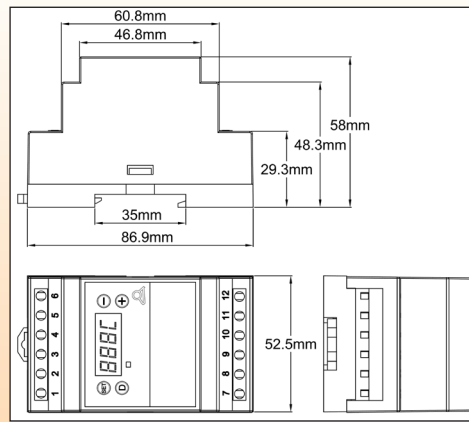
Reference	TMR40030C20001F
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Digital display electronic controller, Din Rail mounting, ON-OFF, Type: 2DNAP6F



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.

It is possible to set °C or °F display, heating or cooling relay output, decimal display, sensor type and temperature range by internal Dip switches (Without access by end user).

Adjustment of maximum temperature can be set without need to open the control.

Dimensions: 86.9 x 58 x 52.5 mm

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

Set point setting: In normal use, the display shows 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 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 measured value.

Action: On-Off

Temperature sensor: Pt100 (2 or 3 wires) or NTC 10Kohms @25°C, B= 3380 (2 wires) Temperature sensor can be selected by a dip switch on circuit (No access to final user)

Accuracy: +/-1% of scale

Temperature adjustment ranges:

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

-30,0 to +40,0°C (-20,0 + 99,9°F), with 1/10° display

-30+400°C (-20+750°F), with 1° display

Temperature range and decimal digit can be selected by a dip switch on circuit (No access to final user)

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

Relay output: SPNO, 16A250V res., 100.000 cycles. Output Led displays relay position.

Relay action: Heating or cooling, open or close on temperature rise output relay action can be selected by a dip switch on circuit (No access to final user)

°C or °F display: can be selected by a dip switch on circuit (No access to final user)

Maximum possible set point adjustment by user: Push “D” button more than 10 seconds, display shows the maximum temperature that can be set by 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 measured value

Ambiant: -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 2.5 mm² terminals

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

- Temperature sensor: three 2.5 mm² screw terminal

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

Internal parameters setting: Process is given on request to approved distributors. This allows to store only one product and set parameters upon end user request.

Standards: Comply with EMC (CE), ROHS and Reach

Main references

References	Temperature range	Sensor	Display	Relay Output
2DNAP6FA	-30+120°C	NTC	888C (°C)	Heating
2DNAP6FB	-20+250°F	NTC	888F (°F)	Heating
2DNAP6FC	-30+120°C	NTC	888C (°C)	Cooling
2DNAP6FD	-20+250°F	NTC	888F (°F)	Cooling
2DNAP6FE	-30, 0 to +40, 0°C	Pt100	88.8C (°C)	Heating
2DNAP6FF	-20,0 + 99,9°F	Pt100	88.8F (°F)	Heating
2DNAP6FG	-30, 0 to +40, 0°C	Pt100	88.8C (°C)	Cooling
2DNAP6FH	-20,0 + 99,9°F	Pt100	88.8F (°F)	Cooling
2DNAP6FI	-30+400°C	Pt100	888C (°C)	Heating
2DNAP6FJ	-20+750°F	Pt100	888F (°F)	Heating
2DNAP6FK	-30+400°C	Pt100	888C (°C)	Cooling
2DNAP6FL	-20+750°F	Pt100	888F (°F)	Cooling
2DNAP6FO	No internal setting made, sold only to approved distributors.			

Standard temperature sensors (For more models see catalogue N°3)

NTC Thermistor

Value: 10Kohms @25°C, B= 3380
Accuracy: +/-1% on R25 and +/-1% on B
Temperature range: -20°C+120°C

Probe: Nickel plated copper, 6x30 mm
Cable: FEP 200°C, length 2 m
Polarity: non polarized

Reference	TNR60030C20001F
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Pt100, 3 wires

Accuracy and tolerances:
 Class B, ±0.3°C @ 0°C, (±0.12 Ω @ 0°C).
Temperature range: -50°C, +200°C
Probe: Stainless Steel 304, dia. 5 mm x 30 mm
Cable: -3 x 0.35 mm², FEP insulation, braided
 +FEP, T 200°C, OD 2.7 mm

Polarity: The two red wires are connected together at their welded junction to one of the sensing element terminal and the white wire is connected to the other terminal.

Reference	TSR50030I2000BK6
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