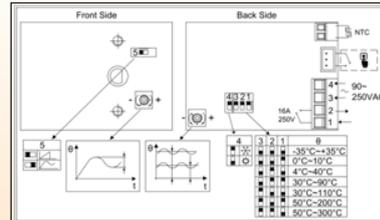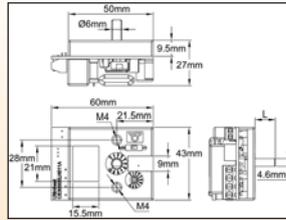# Electronic thermostat, multi range, control and manual reset action, for incorporation, Type: 2PE2N6

Parameters adjustment

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 6mm dia. shaft with 4.6mm 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 ide
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

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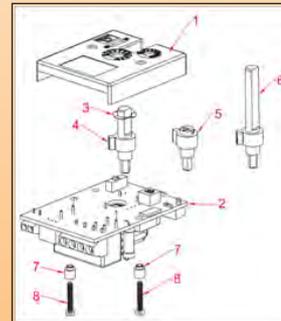
1: Cover
2: Printed circuit
3: Elastic washer
4: 11 mm shaft fitted in standard
5: Screw driver shaft
6: 28 mm shaft
7: Plastic washer
8: Cover screws, (to unscrew to change shaft type

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

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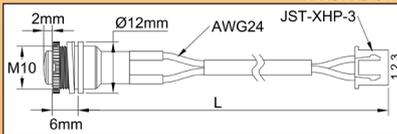
Wired switch for manual reset. Needs a 10 mm dia. hole in the mounting board.

Reference	2PMR100 (L=100 mm). Other length on request

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

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

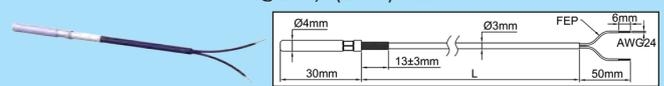## Standard temperature sensor (For more models see catalogue N°3)

All ranges from -35°C to +110°C (-30+230°F)
10Kohms @25°C, B= 3380
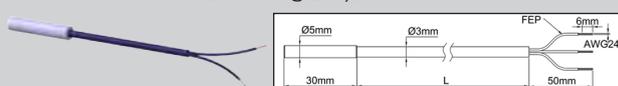
Accuracy: +/-2,5% on R25 e+/-2% on B
Temperature range: -20°C+120°C
Probe: Nickel plated copper, 6x30 mm
Cable: FEP, T200°C, length 2m
Polarity: non polarized

Reference	TNR60030C20001F

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