Electronic temperature control, remote sensor

Enclosure	Type	Operation	Contact	Measurement	Ranges °C	Models
IP65, IK10	Control	Electronic	SPNO or SPNC	Remote	+500°C -35°C	**Y1I2P** **Y1G2P**
Material						
Aluminum						

Y1I2P: External adjustment (With pilot light)
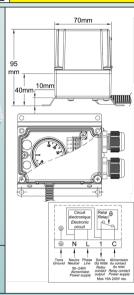
Y1G2P: Internal adjustment (Without pilot light)

Applications:

Temperature control with reduced differential, on-off action, in usual industrial applications and environments, not hazardous areas.

Internal adjustment is convenient for products that must not be frequently adjusted.

Use of electronic sensor allows measurement at a long distance, which is not possible with bulb and capillary types.

Housing: Aluminum, IP65, IK10. Mounted on a SUS304 stainless steel wall mounting plate which keeps temperature sensing element away from the wall. Grey RAL7032 epoxy painting. Stainless steel captive cover screws. Captive aluminum lid.

Operation: Microprocessor electronic control thermostat.

Adjustment ranges: -35-35°C (-30+95°F); 0-10°C (32-50°F); 4-40°C (40-105°F); 30-90°C (85-195°F); 30-110°C (85-230°F); 50-200°C (120-390°F); 50-300°C (120-570°F); 100-400°C (210-750°F); 100-500°C (210-930°F).

Differential: Differential is preset at the minimum value, but can be increased with a potentiometer located under the set point adjustment knob.

Set point adjustment: By °C printed knob. All types have an adjustable rotation limit system located inside the knob that allows reducing the set point adjustment span. Types with external adjustment have a transparent window. This device allows seeing the pilot light and the knob position. °F values are available as an option.

Sensing element: NTC or Pt100 probe, mounted on the side of plastic housing. The sensor cable is protected by a stainless steel corrugated pipe terminated by a silicone tip. A plastic cap plug provided as standard accessory allows locking the flexible metal conduit inside a pocket (See pockets in the accessories section). Standard cable length 2m. Other lengths on request.

Cable input and output: Two M20 cable glands, Black PA66. Internal electrical connection on screw terminals. 2 phases power supply (Line+ Neutral, 220~250V, 50Hz~60Hz) are mandatory.

Earthing: Internal and external screw terminal.

Pilot light: Allow to visualize thermostat contact output position. Standard for all models with transparent window. Non Standard and on special request only for models with plain aluminum cover.

Mounting: Wall mounting, by 4 holes for screws dia. 4 to 5mm, 94 × 92mm distance.

Identification: Metallic identification label, riveted.

Contact: SPST. 16A (2.6), 250VAC. Open or close on temperature rise. (Contact action can be set on the circuit board.) Products are shipped in standard with contact open on temperature rise action, for use in heating applications.

Electrical life: >100,000 cycles.

Minimum storage temperature: -35°C (-30°F)

Maximum ambient temperature: 60°C (140°F)

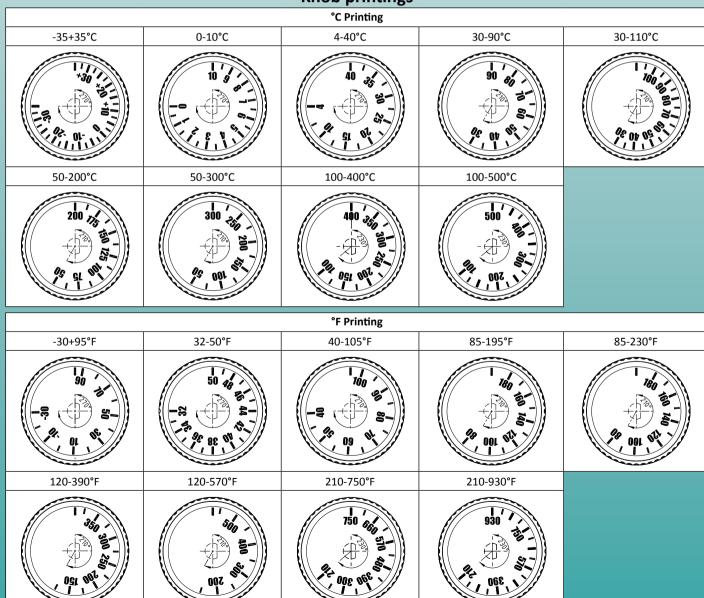For more technical information ask 2PE2N6 thermostat technical data sheet.

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Main references

Temperature adjustment ranges °C (°F)	Temperature sensor	References with external adjustment	References with internal adjustment	Differential °C (°F)
-35+35°C (-30+95°F)	NTC (10KOhms @25°C)	Y1I2PN6F2350352J	Y1G2PN6F2350352J	0.5~0.8°C (0.9~1.4°F)
0-10°C (32-50°F)	NTC (10KOhms @25°C)	Y1I2PN6F2000102J	Y1G2PN6F2000102J	0.5~0.8°C (0.9~1.4°F)
4-40°C (40-105°F)	NTC (10KOhms @25°C)	Y1I2PN6F2040402J	Y1G2PN6F2040402J	0.5~0.8°C (0.9~1.4°F)
30-90°C (85-195°F)	NTC (10KOhms @25°C)	Y1I2PN6F2300902J	Y1G2PN6F2300902J	0.5~0.8°C (0.9~1.4°F)
30-110°C (85-230°F)	NTC (10KOhms @25°C)	Y1I2PN6F2301102J	Y1G2PN6F2301102J	0.5~0.8°C (0.9~1.4°F)
50-200°C (120-390°F)	Pt100	Y1I2PP6F2502002J	Y1G2PP6F2502002J	0.5~0.8°C (0.9~1.4°F)
50-300°C (120-570°F)	Pt100	Y1I2PP6F2503002J	Y1G2PP6F2503002J	0.5~0.8°C (0.9~1.4°F)
100-400°C (210-750°F)	Pt100	Y1I2PP6F2A04002J	Y1G2PP6F2A04002J	0.5~0.8°C (0.9~1.4°F)
100-500°C (210-930°F)	Pt100	Y1I2PP6F2A05002J	Y1G2PP6F2A05002J	0.5~0.8°C (0.9~1.4°F)

°F printing: replace last character (J) by K.
Character 15 gives the sensor cable length (2m).

Knob printings

°C Printing				
-35+35°C	0-10°C	4-40°C	30-90°C	30-110°C
50-200°C	50-300°C	100-400°C	100-500°C	

°F Printing				
-30+95°F	32-50°F	40-105°F	85-195°F	85-230°F
120-390°F	120-570°F	210-750°F	210-930°F	

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