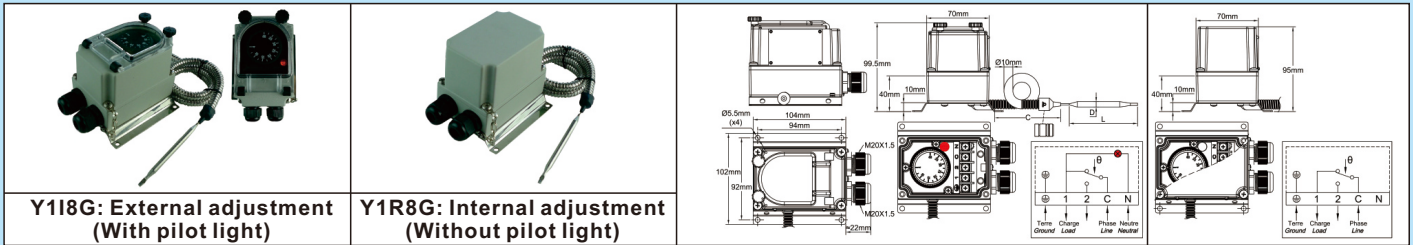


# Bulb and capillary thermostats

Enclosure	Type	Operation	Contact	Measurement	Ranges °C	Models
IP65, IK10	Control	Mechanical	SPDT	Remote		<b>Y118G &amp; Y1R8G</b>
Material						
Aluminum						



## Applications

Remote control in usual industrial applications and environments, not hazardous areas.

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

**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.

**Set point adjustment ranges:** -35+35°C (-30+95°F); -10+40°C (15-105°F); 4-40°C (40-105°F); 0-60°C (32-140°F); 0-90°C (32-195°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)

**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.

**Action:** Temperature control.

**Sensing element:** Liquid expansion bulb and capillary. The capillary 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).

**Electrical connections:** Inside, on screw terminal connection block

**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.

**Cable input and output:** Two M20 cable gland, Black PA66.

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

**Identification:** Metallic identification label, riveted.

**Contact:** SPDT

**Electrical rating, resistive loads:**

-Open on temperature rise contact (C-1)

16A 250V, 50 ~60Hz: >100000 cycles, 20A 250V, 50 ~60Hz: ≥ 50000 cycles, 10A 400V, 50 ~60Hz: ≥ 50000 cycles.

-Close on temperature rise contact (C-2): 6A 250V 50 ~60Hz: >100000 cycles

**Electrical rating, inductive loads:**

-Open on temperature rise contact (C-1): 6A 250V, 50 ~60Hz: >100000 cycles

-Close on temperature rise contact (C-2): 0.6A 250V 50 ~60Hz: >100000 cycles

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

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

For more technical information ask 8G thermostat technical data sheet.

## Main references

Temperature range °C (°F)	Reference with external adjustment	Reference with internal adjustment	Capillary length (C, mm)	Bulb diameter (D, mm)	Bulb length (L, mm)	Differential °C (°F)	Max temperature on bulb °C (°F)
-35+35°C (-30+95°F)	Y118G5035AO6000J	Y1G8G5035AO6000J	1500	6	120±5	1,6±1°C (2,9±2°F)	60°C (140°F)
-10+40°C (15-105°F)	Y118G0040AO6000J	Y1G8G0040AO6000J	1500	6	107±5	1,5±1°C (2,7±2°F)	70°C (158°F)
4-40°C (40-105°F)	Y118G4040AO6000J	Y1G8G4040AO6000J	1500	6	120±5	1±0,5°C (1,8±1°F)	70°C (158°F)
0-60°C (32-140°F)	Y118G0060AO6000J	Y1G8G0060AO6000J	1500	6	86±5	2,5±1°C (4,5±1,8°F)	80°C (176°F)
0-90°C (32-195°F)	Y118G0090AO6000J	Y1G8G0090AO6000J	1500	6	98±5	2,5±1°C (4,5±1,8°F)	120°C (250°F)
30-90°C (85-195°F)	Y118G3090AO6000J	Y1G8G3090AO6000J	1500	6	98±5	2,5±1°C (4,5±1,8°F)	120°C (250°F)
30-110°C (85-230°F)	Y118G3110AO6000J	Y1G8G3110AO6000J	1500	6	86±5	2,5±1°C (4,5±1,8°F)	140°C (284°F)
50-200°C (120-390°F)	Y118G5200AO6000J	Y1G8G5200AO6000J	1500	6	65±5	4±2°C (7±3,6°F)	230°C (446°F)
50-300°C (120-570°F)	Y118G5300AO3000J	Y1G8G5300AO3000J	1500	3	145±5	10°C±2°C (18±3,6°F)	330°C (626°F)
100-400°C (210-750°F)	Y118GA400AO3000J	Y1G8GA400AO3000J	1500	3	93±5	10°C±2°C (18±3,6°F)	430°C (800°F)
100-500°C (210-930°F)	Y118GA500AN4000J	Y1G8GA500AN4000J	1400	4	235±5	10°C±2°C (18±3,6°F)	550°C (1000°F)

°F printing: replace last character (J) by K

## Knob printings

°C Printing					
0-10	-35+35°C	-10+40°C	4-40°C	0-60°C	0-90°C
30-90°C	30-110°C	50-200°C	50-300°C	100-400°C	100-500°C

°F Printing					
0-10	-30+95°F	15-105°F	40-105°F	30-140°F	30-195°F
85-195°F	85-230°F	120-390°F	120-570°F	210-750°F	210-930°F

