

# Bulb and capillary thermostats

Enclosure	Type	Operation	Contact	Measurement	Ranges °C	Models
IP44	Control	Mechanical	SPDT	Remote		<h2>Y038, Y039</h2>
Material						
PC - ABS						

<p><b>Y039: Internal adjustment</b></p>		<p><b>Y038: External adjustment</b></p>	
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**Housing:** IP44, black PC-ABS, fiberglass reinforced, UL94V0. High impact and UV resistance. 2 removable wall mounting lugs.

**Electrical input:** One M20 cable gland.

**Set point adjustment:** By °C printed knob for external adjustment models, by screw driver and printed dial on internal adjustment models. °F values available as an option

**Sensing element:** Liquid filled bulb, distance measurement with capillary.

**Temperature adjustment ranges:** -35+35°C (-30+95°F), 4-40°C (40-105°F), 30-90°C (85-195°F), 30-110°C (90-230°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).

**Electrical connections:** 3 screw terminal connection block

**Mounting:** Wall mounting, by two side lugs with holes for dia. 4mm screws, 63mm distance.

**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 see 8G thermostat technical data sheet

## References

Temperature ranges °C (°F)	Internal adjustment	External adjustment	Bulb diameter (D, mm)	Bulb length (L, mm)	Differential °C (°F)	Max temperature on bulb °C (°F)
-35+35°C (-30+95°F)	Y039GB-35035AO6J	Y038GB-35035AO6J	6	98	1.6±1°C (2.9±2°F)	55 (130)
4-40°C (40-105°F)	Y039GB004040AO6J	Y038GB004040AO6J	6	140	1±0.5°C (1.8±1°F)	60 (140)
30-90°C (85-195°F)	Y039GB030090AO6J	Y038GB030090AO6J	6	87	2.5±1°C (4.5±1.8°F)	120 (250)
30-110°C (90-230°F)	Y039GB030110AO6J	Y038GB030110AO6J	6	93	2.5±1°C (4.5±1.8°F)	150 (300)
50-200°C (120-390°F)	Y039GB050200AO6J	Y038GB050200AO6J	6	59	4±2°C (7±3.6°F)	250 (480)
50-300°C (120-570°F)	Y039GB050300AO3J	Y038GB050300AO3J	3	145	10±5°C (18±9°F)	350 (660)
100-400°C (210-750°F)	Y039GB100400AO3J	Y038GB100400AO3J	3	93	10±5°C (18±9°F)	430 (800)
100-500°C (210-930°F)	Y039GB100500AO4J	Y038GB100500AO4J	4	235	10±5°C (18±9°F)	550 (1000)

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



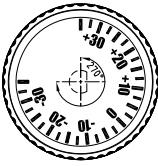
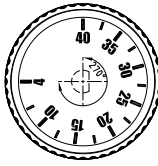
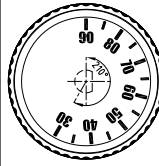
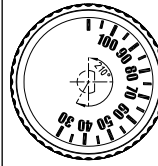
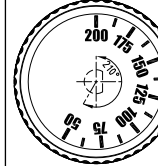
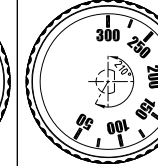
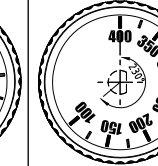
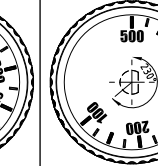
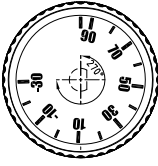
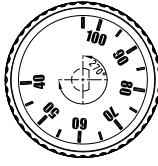
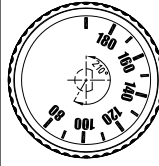
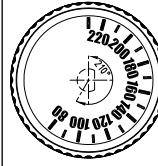
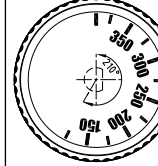
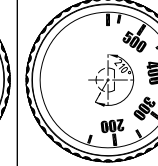
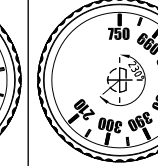
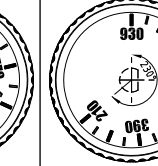
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Cat2-2-5-3

# Bulb and capillary thermostats

## Knob printings

°C Printing							
-35+35°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	40-105°F	85-195°F	90-230°F	120-390°F	120-570°F	210-750°F	210-930°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

