




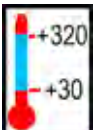
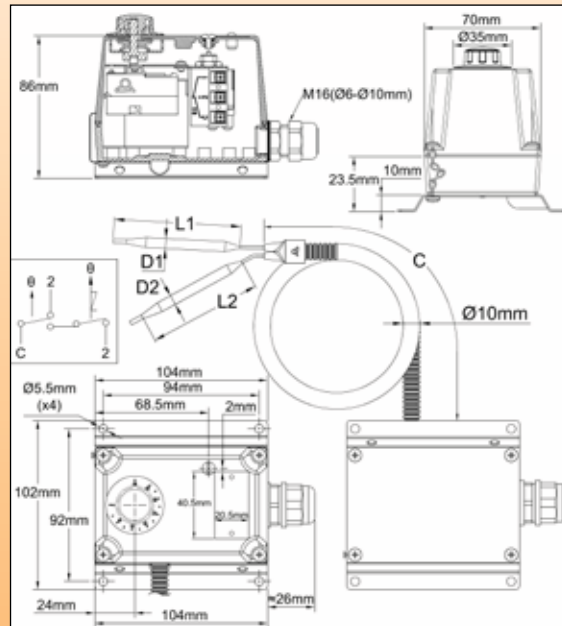


The Y1 range of thermostats with IP65 enclosures

Combined bulb and capillary thermostats (Liquid expansion measurement)

Type	Control Adjustment	Reset access	Contact	Measurement	Range °C	Model
Control + reset 	External knob 	Screwed cap 	Single pole 	Remote 		Y1P Combined Thermostat 8G+8L



Applications:

Remote control in usual industrial application and environment, not hazardous areas.

This product combines a control thermostat with temperature printed knob and a fixed setting manual reset thermostat

- Knob external adjustment is convenient for products that must be frequently adjusted, but reduces IK impact resistance, and does not protect against malicious actions.
- Fixed setting manual reset access under screwed cap allows resetting without need to remove the cover.

Standard electrical and mechanical life model

Housing: Aluminum, IP65, IK6, 104 x 102 x 86 mm. Mounted on a SUS304 stainless steel wall mounting plate. Grey RAL7032 epoxy painting

Control thermostat set point adjustment ranges: -35+35°C (-30+95°F), -10+40°C (15-105°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).

Control thermostat temperature adjustment: Set point adjustable by temperature printed external knob. Shipped with °C printed skirt fitted on the knob, and °F printed skirt in spare part. Printed skirt is replaceable without tool.

Manual reset: sealed fixed setting, reset access by M4 screwed cap.

Manual reset calibration values:

80±8°C (176±15°F), 90±8°C (194±15°F), 110±8°C (230±15°F), 130±8°C (266±15°F), 150±8°C (302±15°F), 175±8°C (347±15°F), 220±11°C (428±20°F), 270±13°C (518±23°F), 300±15°C (572±27°F). Other calibration temperature on request, between 30°C and 320°C (85°F and 610°F)

Action: temperature control thermostat + high limit manual reset thermostat.

Sensing elements: Two liquid expansion bulb and capillary. The capillaries are 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: on internal screw terminal

Cable output: M16 cable gland, PA66, for cables up to 10 mm dia.

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

Identification: 20 x 40 mm stainless steel identification label, riveted.

Contacts: SPDT on the control thermostat and open on temperature rise on manual reset

Electrical rating:

- Open on temperature rise contact (C-1) 16A(2.6) 250VAC

- Close on temperature rise contact (Control thermostat only, C-2) 6A(0.6) 250VAC

- Electrical life > 100.000 cycles for control thermostat, 600 cycles for manual reset thermostat

Cannot be used in 400VAC

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

Main references






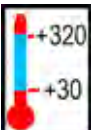
Temperature adjustment ranges °C (°F)	Manual reset standard calibration °C (°F)*	References	Control Differential °C (°F)	Capillaries length (C, mm)	Control Bulb diameter (D, mm)	Control Bulb length (E, mm)	Manual reset Bulb diameter (F, mm)	Manual reset bulb length (G, mm)	Max. temperature on bulbs °C (°F)
-35+35°C (-30+95°F)	50±5°C (122±9°F)	Y1P8GB-35035AO6G	3±2°C (5.5±3.6 °F)	1500	6	98	6	77	55°C (130°F)
-10+40°C (15-105°F)	50±5°C (122±9°F)	Y1P8GB-10040AO6G	3±2°C (5.5±3.6 °F)	1500	6	120	6	77	60°C (140°F)
4-40°C (40-105°F)	50±5°C (122±9°F)	Y1P8GB00404AO6G	3±2°C (5.5±3.6 °F)	1500	6	140	6	77	60°C (140°F)
30-90°C (85-195°F)	110±8°C (230±15°F)	Y1P8GB030090AO6G	4±3°C (7±5.5 °F)	1500	6	87	6	77	120°C (250°F)
30-110°C (85-230°F)	130±8°C (266±15°F)	Y1P8GB030110AO6G	5±3°C (9±5.5 °F)	1500	6	83	6	74	150°C (300°F)
50-200°C (120-390°F)	220±11°C (428±20°F)	Y1P8GB050200AO6G	8±5°C (14.5±9 °F)	1500	6	59	4	90	245°C (473°F)
50-300°C (120-570°F)	300±15°C (572±27°F)	Y1P8GB050300AO3G	10±5°C (18±9 °F)	1500	3	165	4	82	325°C (617°F)

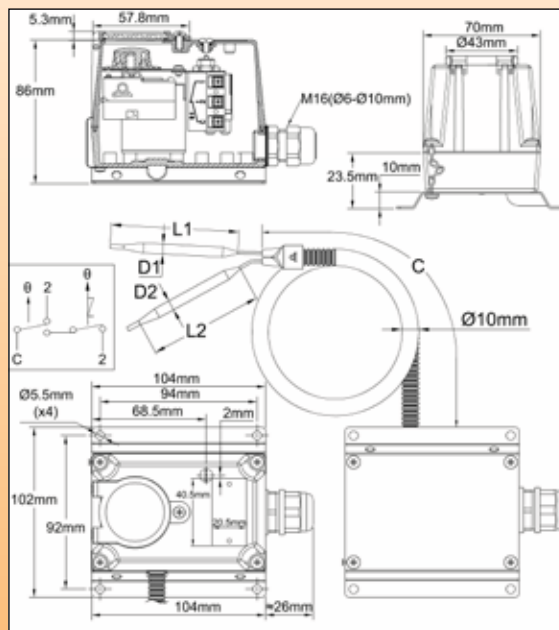
* Other adjustment ranges, consult us for references



The Y1 range of thermostats with IP65 enclosures

Combined bulb and capillary thermostats (Liquid expansion measurement)

Type	Control Adjustment	Reset access	Contact	Measurement	Range °C	Model
Control + reset 	Window 	Screwed cap 	Single pole 	Remote 		Y1Q Combined Thermostat 8G+8L



Applications:

Remote control in usual industrial application and environment, not hazardous areas.

This product combines a control thermostat with temperature printed knob and a fixed setting manual reset thermostat

Internal adjustment under window is convenient for products that must not be frequently adjusted, allows to visualize the set point and avoid to remove the cover for set point adjustment. Fixed setting manual reset access under screwed cap allows resetting without need to remove the cover.

Standard electrical and mechanical life model

Housing: Aluminum, IP65, IK10, 104 x 102 x 86 mm. Mounted on a SUS304 stainless steel wall mounting plate. Grey RAL7032 epoxy painting

Control thermostat set point adjustment ranges: -35±35°C (-30±95°F), -10±40°C (15-105°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).

Control thermostat temperature adjustment: Set point adjustable by temperature printed **internal knob with access by window equipped with high impact polycarbonate glass**. Shipped with °C printed skirt fitted on the knob, and °F printed skirt in spare part. Printed skirt is replaceable without tool.

Manual reset: sealed fixed setting, reset access by M4 screwed cap.

Manual reset calibration values:

80±8°C (176±15°F), 90±8°C (194±15°F), 110±8°C (230±15°F), 130±8°C (266±15°F), 150±8°C (302±15°F), 175±8°C (347±15°F), 220±11°C (428±20°F), 270±13°C (518±23°F), 300±15°C (572±27°F). Other calibration temperature on request, between 30°C and 320°C (85°F and 610°F)

Action: temperature control thermostat + high limit manual reset thermostat.

Sensing elements: Two liquid expansion bulb and capillary. The capillaries are 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: on internal screw terminal

Cable output: M16 cable gland, PA66, for cables up to 10 mm dia.

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

Identification: 20 x 40 mm stainless steel identification label, riveted.

Contacts: SPDT on the control thermostat and open on temperature rise on manual reset

Electrical rating:

- Open on temperature rise contact (C-1) 16A(2.6) 250VAC

- Close on temperature rise contact (Control thermostat only, C-2) 6A(0.6) 250VAC

- Electrical life > **100.000 cycles for control thermostat, 600 cycles for manual reset thermostat**

Cannot be used in 400VAC

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

Main references

Temperature adjustment ranges °C (°F)	Manual reset standard calibration °C (°F)*	References	Control Differential °C (°F)	Capillaries length (C, mm)	Control Bulb diameter (D, mm)	Control Bulb length (E, mm)	Manual reset Bulb diameter (F, mm)	Manual reset bulb length (G, mm)	Max. temperature on bulbs °C (°F)
-35±35°C (-30±95°F)	50±5°C (122±9°F)	Y1Q8GB-35035AO6H	3±2°C (5.5±3.6 °F)	1500	6	98	6	77	55°C (130°F)
-10±40°C (15-105°F)	50±5°C (122±9°F)	Y1Q8GB-10040AO6H	3±2°C (5.5±3.6 °F)	1500	6	120	6	77	60°C (140°F)
4-40°C (40-105°F)	50±5°C (122±9°F)	Y1Q8GB004040AO6H	3±2°C (5.5±3.6 °F)	1500	6	140	6	77	60°C (140°F)
30-90°C (85-195°F)	110±8°C (230±15°F)	Y1Q8GB030090AO6H	4±3°C (7±5.5 °F)	1500	6	87	6	77	120°C (250°F)
30-110°C (85-230°F)	130±8°C (266±15°F)	Y1Q8GB030110AO6H	5±3°C (9±5.5 °F)	1500	6	83	6	74	150°C (300°F)
50-200°C (120-390°F)	220±11°C (428±20°F)	Y1Q8GB050200AO6H	8±5°C (14.5±9 °F)	1500	6	59	4	90	245°C (473°F)
50-300°C (120-570°F)	300±15°C (572±27°F)	Y1Q8GB050300AO3H	10±5°C (18±9 °F)	1500	3	165	4	82	325°C (617°F)






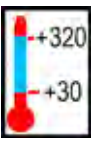
* Other adjustment ranges, consult us for references

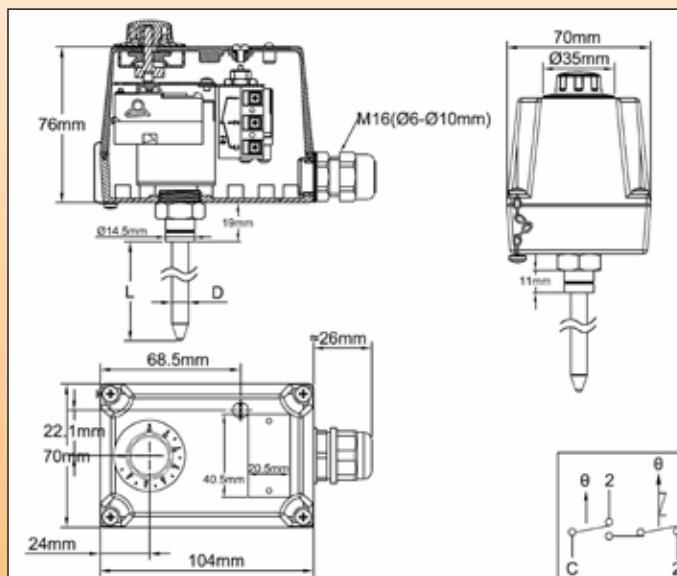
Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice



The Y1 range of thermostats with IP65 enclosures

Combined rod thermostats (Liquid expansion measurement)

Type	Set point adjustment	Manual reset access	Contact	Measurement	Range °C	Model
Control + reset 	External knob 	Screwed cap 	Single pole 	Rod 		Y1Z Combined Thermostat 8G+8L



Applications:

These **liquid expansion** rod thermostats can be installed inside pockets as immersion thermostats in pipelines and containers, and for monitoring temperature in air ducts, in usual industrial application and environment. (Not suitable for hazardous areas).

Control thermostat set point adjustment ranges: 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).

- **Knob external adjustment is convenient for products that must be frequently adjusted, but reduces IK impact resistance, and does not protect against malicious actions.**
- **Fixed setting manual reset access under screwed cap allows resetting without need to remove the cover.**

Standard electrical and mechanical life model

Housing: Aluminum, IP65, IK6, 104 x 102 x 86 mm. Mounted on a SUS304 stainless steel wall mounting plate. Grey RAL7032 epoxy painting

Control thermostat set point adjustment ranges: 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).

Control thermostat temperature adjustment: Set point adjustable by temperature printed **external knob**. Shipped with °C printed skirt fitted on the knob, and °F printed skirt in spare part. Printed skirt is replaceable without tool.

Manual reset: sealed fixed setting, reset access by M4 screwed cap.

Manual reset calibration values:

80±8°C (176±15°F), 90±8°C (194±15°F), 110±8°C (230±15°F), 130±8°C (266±15°F), 150±8°C (302±15°F), 175±8°C (347±15°F), 220±11°C (428±20°F), 270±13°C (518±23°F), 300±15°C (572±27°F). Other calibration temperature on request, between 30°C and 320°C (85°F and 610°F)

Action: temperature control thermostat + high limit manual reset thermostat.

Sensing elements: Two liquid expansion bulbs. This rod has a non-temperature sensing zone named dead zone which allows thermal insulation crossing. An increased diameter under the thermostat head allows mounting pockets or brackets (See pockets in the accessories section)

Electrical connections: Inside, on screw terminal connection block

Earthing: on internal screw terminal

Cable output: M16 cable gland, PA66, for cables up to 10 mm dia.

Mounting: On pockets for liquid immersion or brackets for air ducts

Identification: 20 x 40 mm stainless steel identification label, riveted.

Contacts: SPDT on the control thermostat and open on temperature rise on manual reset

Electrical rating:

- Open on temperature rise contact (C-1) 16A(2.6) 250VAC

- Close on temperature rise contact (Control thermostat only, C-2 6A(0.6) 250VAC)

- Electrical life >100.000 cycles for control thermostat, 6000 cycles for manual reset thermostat

Cannot be used in 400VAC

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

Main references

Temperature adjustment ranges °C (°F)	Manual reset standard calibration °C (°F) *	References	Control differential °C (°F)	Min. manual reset Differential °C (°F)	Rod length (C, mm)	Rod diameter (D, mm)	Temperature sensing length (E, mm)	Max. temperature on rod °C (°F)
4-40°C (40-105°F)	50±5°C (122±9°F)	Y1Z8GB004040023C	3±2°C (5.5±3.6 °F)	5°C (9°F)	230	10	230	60°C (140°F)
4-40°C (40-105°F)	50±5°C (122±9°F)	Y1Z8GB004040030C	3±2°C (5.5±3.6 °F)	5°C (9°F)	300	10	230	60°C (140°F)
4-40°C (40-105°F)	50±5°C (122±9°F)	Y1Z8GB004040045C	3±2°C (5.5±3.6 °F)	5°C (9°F)	450	10	230	60°C (140°F)
30-90°C (85-195°F)	110±8°C (230±15°F)	Y1Z8GB030090023C	4±3°C (7±5.5 °F)	7°C (12.6°F)	230	10	160	120°C (250°F)
30-90°C (85-195°F)	110±8°C (230±15°F)	Y1Z8GB030090030C	4±3°C (7±5.5 °F)	7°C (12.6°F)	300	10	160	120°C (250°F)
30-90°C (85-195°F)	110±8°C (230±15°F)	Y1Z8GB030090045C	4±3°C (7±5.5 °F)	7°C (12.6°F)	450	10	160	120°C (250°F)
30-110°C (85-230°F)	130±8°C (266±15°F)	Y1Z8GB030110023C	5±3°C (9±5.5 °F)	7°C (12.6°F)	230	10	160	150°C (300°F)
30-110°C (85-230°F)	130±8°C (266±15°F)	Y1Z8GB030110030C	5±3°C (9±5.5 °F)	7°C (12.6°F)	300	10	160	150°C (300°F)
30-110°C (85-230°F)	130±8°C (266±15°F)	Y1Z8GB030110045C	5±3°C (9±5.5 °F)	7°C (12.6°F)	450	10	160	150°C (300°F)
50-200°C (120-390°F)	220±11°C (428±20°F)	Y1Z8GB050200023C	8±5°C (14.5±9 °F)	13°C (23.4°F)	230	10	120	245°C (473°F)
50-200°C (120-390°F)	220±11°C (428±20°F)	Y1Z8GB050200030C	8±5°C (14.5±9 °F)	13°C (23.4°F)	300	10	120	245°C (473°F)
50-200°C (120-390°F)	220±11°C (428±20°F)	Y1Z8GB050200045C	8±5°C (14.5±9 °F)	13°C (23.4°F)	450	10	120	245°C (473°F)
50-300°C (120-570°F)	300±15°C (572±27°F)	Y1Z8GB050300030C	10±5°C (18±9 °F)	15°C (27°F)	300	10	200	325°C (617°F)
50-300°C (120-570°F)	300±15°C (572±27°F)	Y1Z8GB050300045C	10±5°C (18±9 °F)	15°C (27°F)	450	10	200	325°C (617°F)

* Other manual reset calibration values on request. Ask for references

On request: other rod length up to 1500 mm

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

