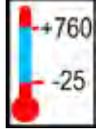
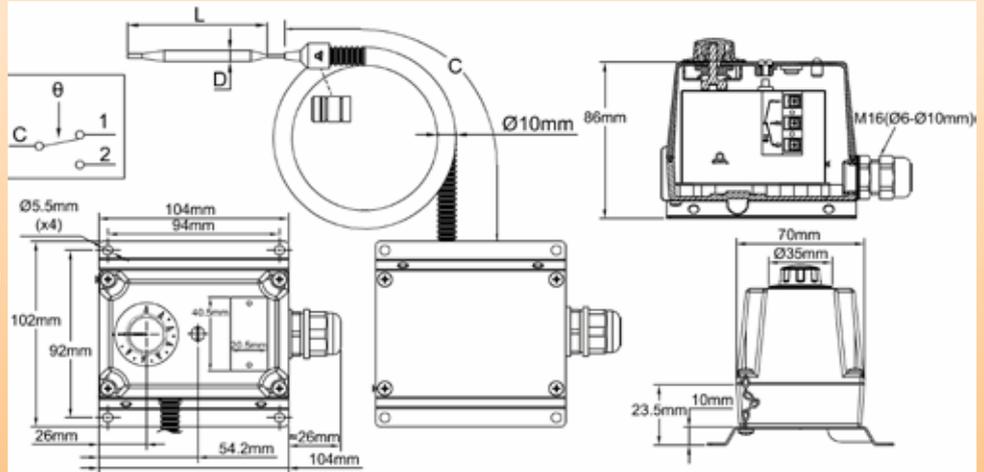


The Y1 range of thermostats with IP65 enclosures

Bulb and capillary thermostats (Liquid expansion measurement)

Type	Set point adjustment	Manual reset access	Contact	Measurement	Range °C	Model
Manual reset 	External knob 	Screwed cap 	Single pole 	Remote 		Y10 Adjustable limiter KX



Applications:

- Remote control in usual industrial application and environment, not hazardous areas, for use as **high limit safety**.
- **Internal adjustment under window cap is convenient for products that must be frequently adjusted, but reduces IK impact resistance, and does not protect against malicious actions.**
- **Changeover contact for switch off remote signaling**
- **Manual reset with internal access under M4 screwed cap allows to reset without need to open the enclosure.**

Withstand very low ambient temperatures

Long 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

Set point adjustment ranges: -25+25°C (-15+80°F), -10+15°C (15-60°F), 0-50°C (32-120°F), 0-70°C (32-160°F), 20-90°C (70-195°F), 10-150°C (50-300°F), 80-200°C (175-390°F), 50-300°C (120-570°F), 10-450°C (50-840°F), 60-500°C (140-930°F), 180-600°C (360-1110°F), 280-700°C (540-1290°F), or fixed setting between -25 and +760°C (-15+1400°F)

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.

Action: High limit with manual reset

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: Internal, 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.

Contact: SPDT

Rating: 15A res. 230/400VAC, electrical life >100.000 cycles.

Storage minimum temperature: -50°C (-60°F)

Fail safe: some of these products can be made with fail safe manual reset. References on request

Main references

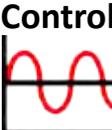
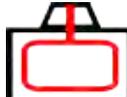
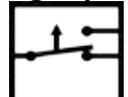
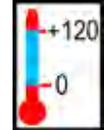
Temperature adjustment ranges °C (°F)	References	Differential °C (°F)	Capillary length (C, mm)	Bulb diameter (D, mm)	Bulb length (E, mm)	Max. temperature on bulb °C (°F)
-25+25°C (-15+80°F)	Y10KXA-25025220G	6°C (11 °F)	1500	6.4	152	50°C (120°F)
-10+15°C (15-60°F)	Y10KXA-10015220G	6°C (11 °F)	1500	6.4	152	50°C (120°F)
0-50°C (32-120°F)	Y10KXA000050200G	6°C (11 °F)	1500	6.4	152	60°C (140°F)
0-70°C (32-160°F)	Y10KXA000070520G	15°C (27°F)	1500	4.8	130	160°C (320°F)
0-70°C (32-160°F)	Y10KXA000070120G	15°C (27°F)	3000	4.8	130	160°C (320°F)
20-90°C (70-195°F)	Y10KXA020090500G	15°C (27°F)	1500	4.8	130	160°C (320°F)
20-90°C (70-195°F)	Y10KXA020090100G	15°C (27°F)	3000	4.8	130	160°C (320°F)
10-150°C (50-300°F)	Y10KXA010150500G	15°C (27°F)	1500	4.8	130	160°C (320°F)
10-150°C (50-300°F)	Y10KXA010150100G	15°C (27°F)	3000	4.8	130	160°C (320°F)
80-200°C (175-390°F)	Y10KXA080200010G	30°C (54°F)	1500	4	100	320°C (610°F)
50-300°C (120-570°F)	Y10KXA050300010G	30°C (54°F)	1500	4	100	320°C (610°F)
10-450°C (50-840°F)	Y10KXA010450700G	60°C (108°F)	1500	4.8	120	760°C (1400°F)
10-450°C (50-840°F)	Y10KXA010450900G	60°C (108°F)	3000	4.8	120	760°C (1400°F)
60-500°C (140-930°F)	Y10KXA060500700G	60°C (108°F)	1500	4.8	120	760°C (1400°F)
60-500°C (140-930°F)	Y10KXA060500900G	60°C (108°F)	3000	4.8	120	760°C (1400°F)
180-600°C (360-1110°F)	Y10KXA180600700G	60°C (108°F)	1500	4.8	120	760°C (1400°F)
180-600°C (360-1110°F)	Y10KXA180600900G	60°C (108°F)	3000	4.8	120	760°C (1400°F)
280-700°C (540-1290°F)	Y10KXA280700700G	60°C (108°F)	1500	3	300	760°C (1400°F)

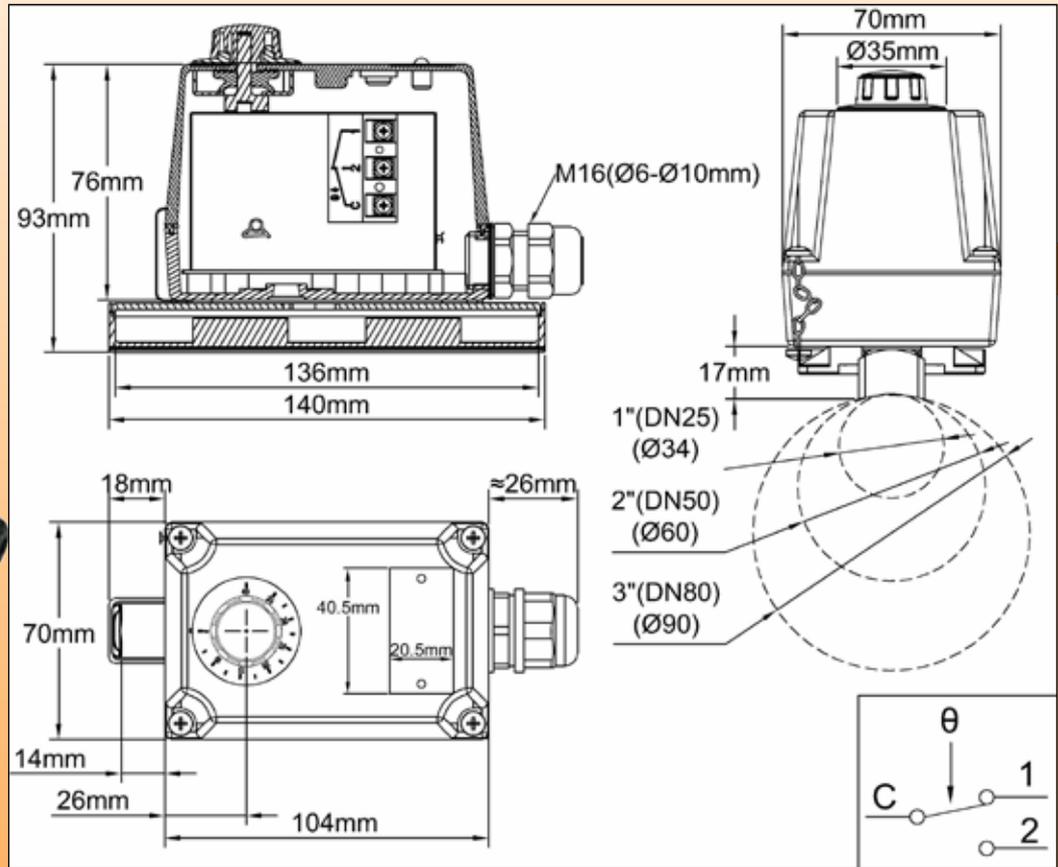
Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice



The Y1 range of thermostats with IP65 enclosures

Pipe temperature control thermostats (Liquid expansion measurement)

Type	Adjustment	Contact	Measurement	Range °C	Model
Control 	External Knob 	Single pole 	Pipe mounting 		Y12 Thermostat KR, KU



Applications:

Pipe surface temperature control in usual industrial application and environment, (Not suitable for hazardous areas)

- External knob adjustment is convenient for products that must be frequently adjusted, but reduces IK impact resistance, and does not protect against malicious actions.

- Insensibility to strong vibrations

Withstand very low ambient temperatures

Long electrical and mechanical life model

Housing: Aluminum, IP65, IK10, 104 x 102 x 86 mm, with backside pipe mounting temperature sensing aluminum bracket Grey RAL7032 epoxy painting

Set point adjustment ranges: -0-50°C (32-120°F), 0-70°C (32-160°F), 20-90°C (70-195°F), 20-120°C (68-248°F).

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.

Action: Temperature control.

Sensing element: Liquid expansion bulb inside aluminum bracket in contact with the pipe surface.

The bracket design provides optimized thermal contact with 34 mm (1", DN25), 60 mm (2", DN50) and 90 mm (3", DN80) outside diameter tubes. For intermediate sizes, we recommend the use of thermal grease

Electrical connections: Internal, on screw terminal connection block

Earthing: On internal screw terminal

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

Mounting: The thermostat housing can be fixed on the pipe by worm drive hose clamps (DIN3017), nylon cable ties (Tie wraps upon EN50146, for applications at permanent temperature lower than 85°C), or specific stainless steel punched band (see accessories at the end of this catalog)

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

Contact: SPDT

Rating: 15A res. 230/400VAC, electrical life >500.000 cycles.

Reduced differential models cannot be used in 400VAC

Storage minimum temperature: -50°C (-60°F)

Main references

Temperature range °C (°F)	Standard differential		Reduced differential		Max. temperature on tube °C (°F)
	References	Differential °C (°F)	References	Differential °C (°F)	
0-50°C (32-120°F)	Y12KRA000050200T	3±2°C (5.5±3.6 °F)	Y12KUA000050200T	2±1°C (3.6±1.8 °F)	60°C (140°F)
0-70°C (32-160°F)	Y12KRA000070500T	5±3°C (9±5.4°F)	Y12KUA000070500T	3±2°C (5.5±3.6 °F)	160°C (320°F)
20-90°C (70-195°F)	Y12KRA020090500T	5±3°C (9±5.4°F)	Y12KUA020090500T	3±2°C (5.5±3.6 °F)	160°C (320°F)
20-120°C (68-248°F)	Y12KRA020120500T	5±3°C (9±5.4°F)	Y12KUA020120500T	3±2°C (5.5±3.6 °F)	160°C (320°F)

