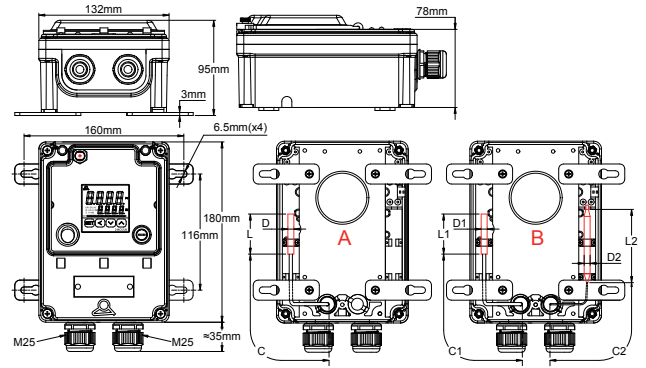# Y6, Y7, Y8 types temperature control boxes
48 × 48mm, Double display PID Electronic controllers types
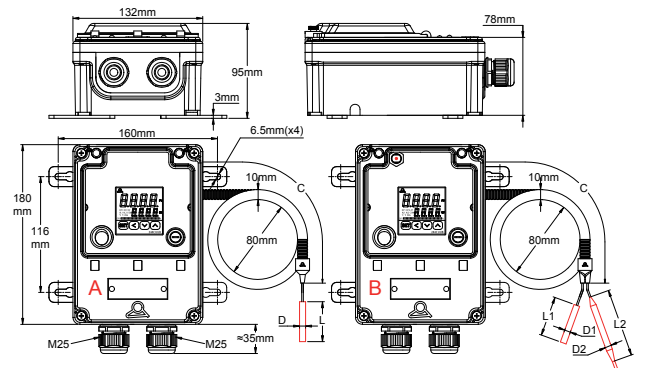
Main features
These products come in 4 different dimensional configurations,
in control (One sensor) or control + high limit safety (2 sensors or one sensor + one bulb)

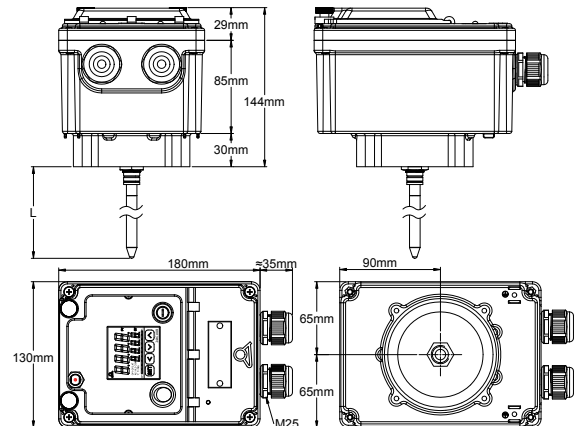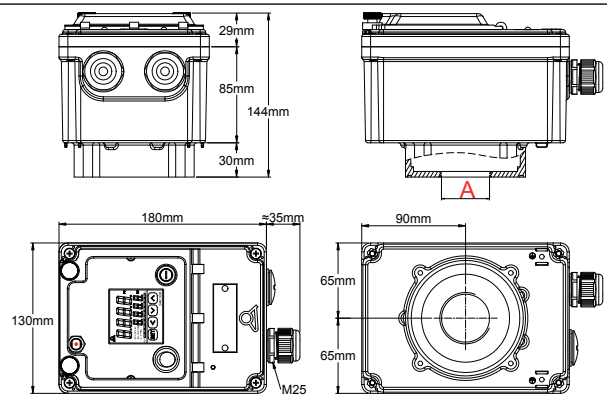|		
Y8 Ambient temperature measurement		A: One sensor model, temperature control only. B: 2 sensors models, Temperature control and manual reset high limit.
Y8 Remote measurement		A: One sensor model, temperature control only. B: 2 sensors models, Temperature control and manual reset high limit.
Y6 Rear rod measurement		
Y7 Measurement on rear mounted immersion heater (We do not supply the immersion heater)		A: 3/8 to M77 thread on request

Y6, Y7, Y8 types temperature control boxes
48 × 48mm, Double display PID Electronic controllers types

Main advantages:

• The most efficient electronic controller with double digital display of the Y8 electronic temperature controls range.
• Heavy duty housing for outside use, IP65 and IK10.
• Fully configurable: multi sensor, multi output
If open circuit or missing temperature sensor and if no power supply, output relay will open (Fail safe action)

Standard equipment:
• Fuse for internal circuit protection
• Illuminated on-off switch
• 4 wall mounting removable legs (Y8 versions only)
• Connection block with 5 terminal for 6mm² wires and 5 terminals for 2.5mm² wires (6 × 10mm^2 + 2 × 2.5mm^2 for 30A and higher models).
The connection block is equipped with a jumper between terminals 1 and 2, it allows connecting a safety device, a timer, or an external wired remote control.
On versions using power relay(s) this jumper is on the power relays coil circuit. (This option does not exist on 6 × 10mm^2 + 2 × 2.5mm^2 connection blocks)

Controller contact action:
• In models with manual reset high limit thermostats, close on rise contact action is not available on manual reset thermostat.
• Control action: PID autotune switchable to ON-OFF if needed.

Contact action (Types with manual reset option):
Manual reset thermostat calibration must be specified at order. The electromechanical manual reset thermostat can be failsafe or standard. The choice of different configurations depends on the final application, and the requirements to use single poles or multiple pole switching systems, independent or not.
Minimum calibration temperature for manual reset thermostats is 40°C (60°C for fail safe models), with open on temperature rise contact action.

Cables output:
• Cables gland output board is equipped in standard with one or two M25 cable glands
• The two back side M20 × 1.5 outputs are equipped with cable glands with silicone gasket to seal the temperature sensors outlet.
• When the Y8 type is used with backside accessories, the version to use is the distance measurement, and capillary protection tube must be removed.

Standard Accessories:
• 10 PA66 red plastic seals, English-French installation manual.
• One temperature sensor, Pt100 class B, 5 × 30mm stainless steel probe, is included in the control box
• For remote measurement versions, sensor cable length is 2m, protected by flexible corrugated plastic tube.
• Other sensors on request, must be specified when ordering (see standard models page 51 of this catalogue)

Options:
• Infrared remote control
• Enclosure heater