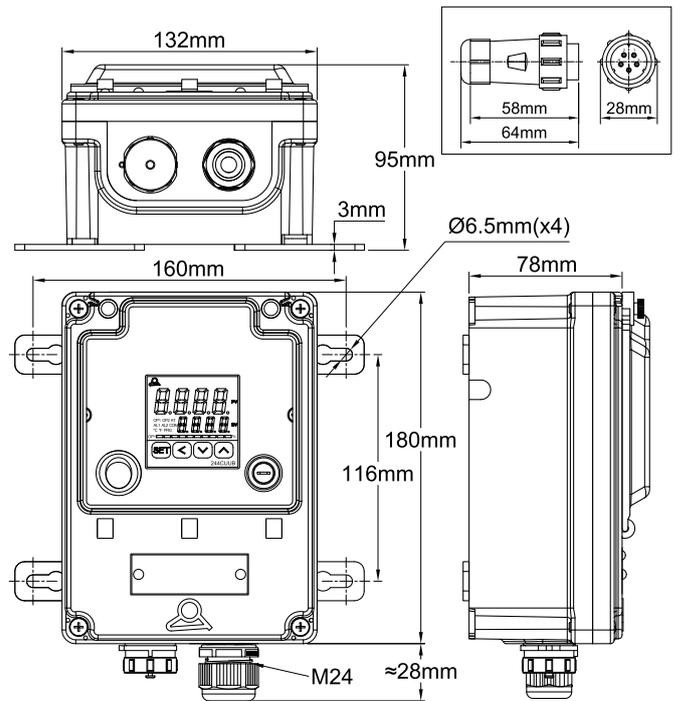
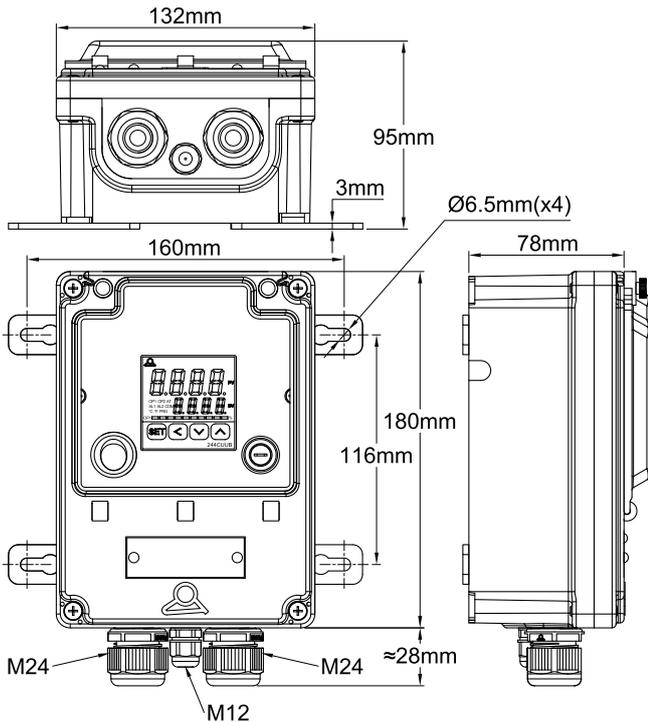


Electronic temperature controller with double digital display, multi-sensors, PID or ON-OFF action, for heat trace pipe temperature control, remote wall mounting



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

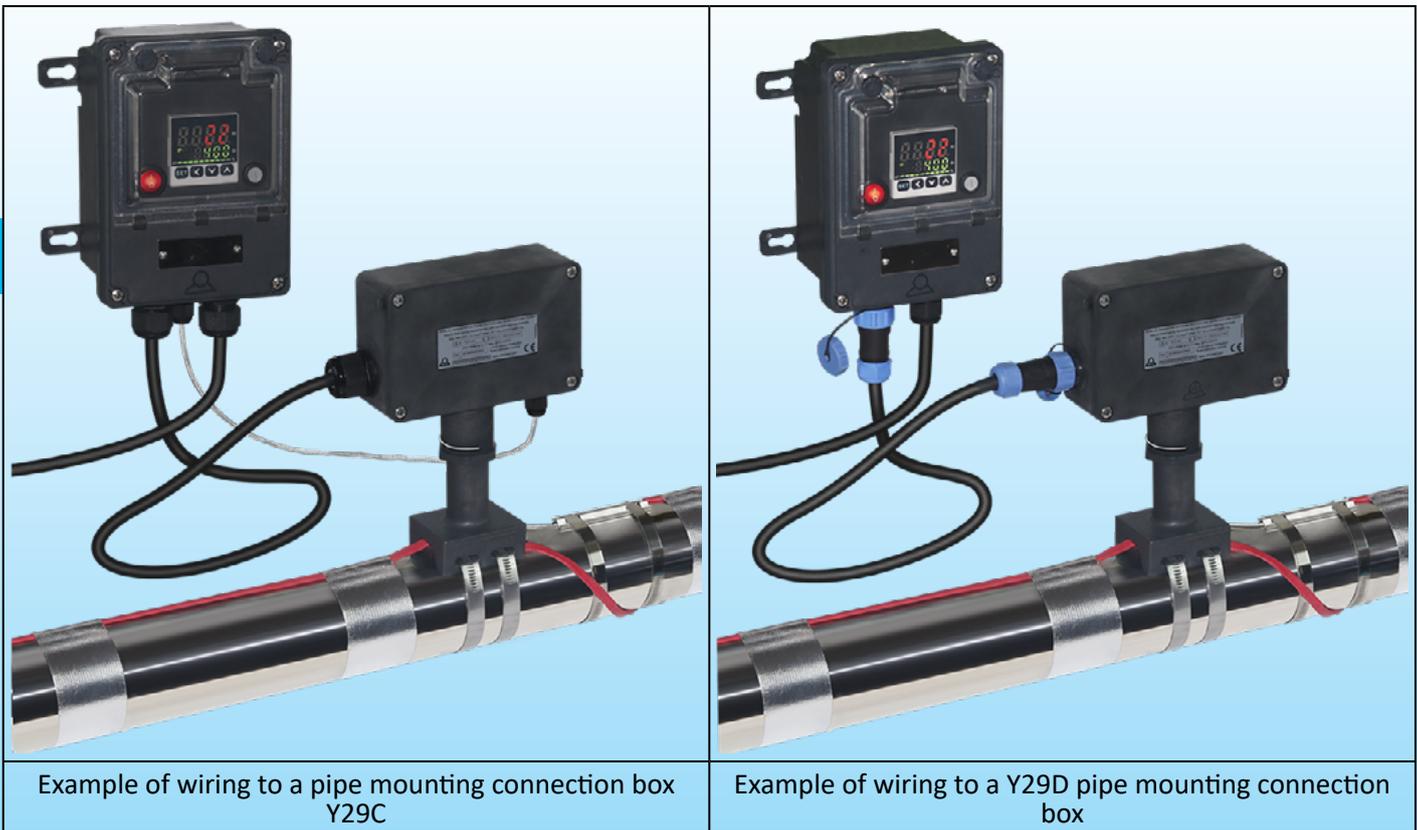
| Temperature ranges | Mounting | Adjustment | Sensor | Action type | Types |
|--------------------|---------------|------------------------|------------------|------------------|--------------------------------|
| Multi-parameters | Wall mounting | Digital double display | Multi-parameters | Multi-parameters | Y8WJ-X Y8WJ-Y |



Model with 3 cable glands (2 × M24 + 1 × M12): Y8WJ-X

Model with one 5 ways connector and one M24 cable gland: Y8WJ-Y

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Example of wiring to a pipe mounting connection box Y29C

Example of wiring to a Y29D pipe mounting connection box

Applications

These waterproof control boxes with wall mounting allow remote control of the surface temperature of the pipes. The connection to the heating elements is via a connection box with or without offset mounting foot type Y26, Y27, Y28, Y29, or with a 3-conductor power cable and a separate NTC temperature sensor cable, or by an offset mounting foot connection box type Y29B and a single 5-conductor cable equipped with a 5-way connector.

The electronic controller used is designed to be the most universal. It is totally configurable. Its use requires reading and understanding of its instructions of use.

It includes an auto-tune function allowing automatic adjustment of PID parameters. The incorporation of a microprocessor using Fuzzy Logic technology makes it possible to reach a predetermined setpoint as quickly as possible, with a minimum of overheat during disturbances related to the ramp-up or the external load. A 20A 250V solid state relay board is included in standard.

The temperature sensor input is configurable, and in particular allows the use of Pt100 RTD

The use of a wired temperature measurement sensor, which can be disconnected, allows to overcome the problems of wall crossing of bulb thermostats, the capillary of which cannot be cut, and to proceed with installation of connection and control boxes after mounting the heating cables and the temperature sensor, installation of the pipe insulation and installation of the insulation protection sheath.

Main features

Enclosure: IP69K, reinforced PA66, with polycarbonate window access. Sealable cover and window.

Wall mounting: Four removable and rotatable legs.

Electrical connection:

- On internal terminal block for power supply on all models.
- On the model with 3 cable glands: On internal terminal block for the output and the temperature sensor.
- On the model with output by 5-way connector, the internal wiring of the power output and the temperature sensor to the connector is carried out.

Cable glands:

- Three cable glands model: Two M24 cable glands for power supply and power output and one M12 cable gland for the temperature sensor.
- 5-way connector model: A 5-way female connector mounted on the wall of the housing and a 5-way male connector to be mounted on cable, and an M24 cable gland for the power supply cable.

Switching devices: Main illuminated switch and safety fuse.

Controller: Double display, of process value and of set-point.

Action: PID with automatic parameters adjustment by auto-tune function. It can also be set in ON-OFF action with adjustable differential

Sensor input: Configurable for Pt100, K thermocouple and other sensors

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Power output: 20A 230V solid state relay.

Alarm: 3A 230V relay.

Display: 4 digits display configurable in °C or °F

Power supply: AC 220-230V 50-60Hz.

Accuracy: ±1°C (±2°F) or 0.3% end of scale ± one digit.

Self-testing: Over-scale, under-scale, and open sensor circuit.

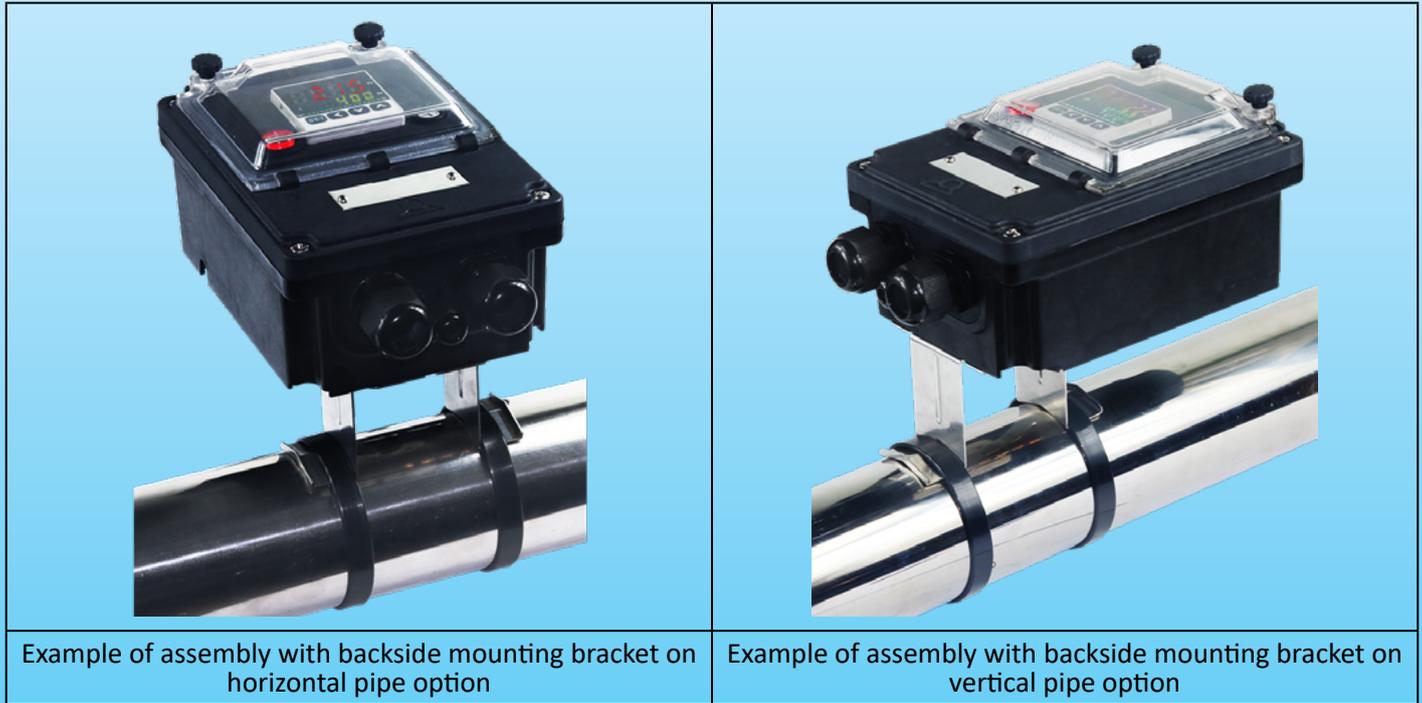
Ambient temperature: -10 to 60°C, 20 to 85% relative humidity, non-condensing.

Option: Pipe mounting bracket. Screwed on the back of the case, it allows mounting on a horizontal or vertical tube, at a distance of about 50mm. (See accessories 6YTPT).

Main part numbers*, temperature sensor not included

| Part numbers | Output to heating elements and temperature sensors |
|------------------|---------------------------------------------------------|
| Y8WJU021D0000AUX | Model with 3 cable glands (2 × M24 +1 × M12) |
| Y8WJU021D0000AUY | Model with one 5 ways connector and one M24 cable gland |

* For models with backside mounted stainless steel bracket for pipe mounting, replace 021 by V21 in the reference



Wiring

