



## TKG-CO2-1010D-PP

## TKG-CO2-3010D-PP

Plug and Play Carbon Dioxide Controller  
for Greenhouse

CE Approval

### Features

- ◆ Design for control the CO<sub>2</sub> concentration in greenhouses or mushrooms
- ◆ NDIR infrared CO<sub>2</sub> sensor inside with Self-Calibration and up to more than 10 years lifetime.
- ◆ Plug & play type, very easy to connect the power and a fan or CO<sub>2</sub> generator.
- ◆ 100VAC~240VAC range power supply with European or American power plug and power connector.
- ◆ A max. 8A relay dry contact output
- ◆ Inside a photosensitive sensor for auto changeover day/night work mode
- ◆ Replaceable filter in the probe and extendable probe length.
- ◆ Design the convenient and easier buttons for operation.
- ◆ Optional split external sensor with 2 meter cables
- ◆ CE-Approval.



Connect the controlled device

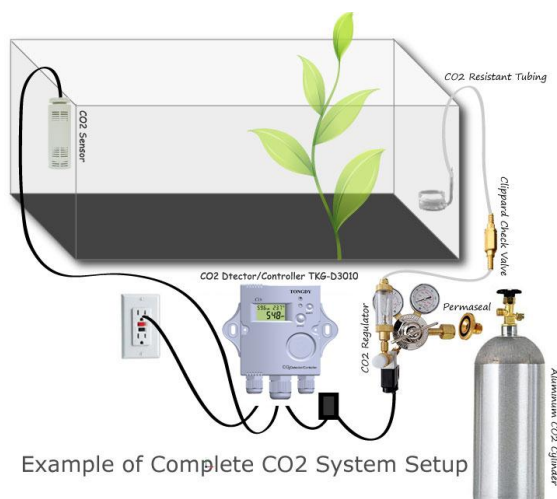
Connect the 100V~240V power supply

European/American power plug & connector optional

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One application of the split controller and sensor

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Example of Complete CO2 System Setup

## Specifications

CO <sub>2</sub> Sensor	Non-Dispersive Infrared Detector (NDIR)
Measurement Range	0~2,000ppm (default) 0~5,000ppm (preset)
Accuracy	±60ppm + 3% of reading @22°C (72°F)
Stability	<2% of full scale over the life of the sensor
Calibration	Self-calibration system
Response Time	<5 minutes for 90% step change at low duct speed
Non-linearity	<1% of full scale @22°C (72°F)
Duct Air Velocity	0~450m/min
Pressure Dependence	0.135% of reading per mm Hg
Warm up time	2 hours (first time) 2 minutes (operation)
Split CO2 sensor	2 meter cable connection between the sensor and the controller
Power supply	100VAC~240VAC
Consumption	1.8 W max. ; 1.0 W avg.
LCD display	Display CO <sub>2</sub> measurement
Dry contact output (optional)	1xdry contact output Max. switch current: 8A (load resistance) SPDT relay
Plug& play type	100VAC~240VAC power supply with <a href="#">European</a> or <a href="#">American</a> power plug and power connector to the CO2 generator
Operation conditions	0°C ~60°C (32~140°F); 0~99%RH, non condensing
Storage conditions	0~50°C (32~122°F)/ 0~80%RH
IP class	IP30
Standard Approval	CE-Approval

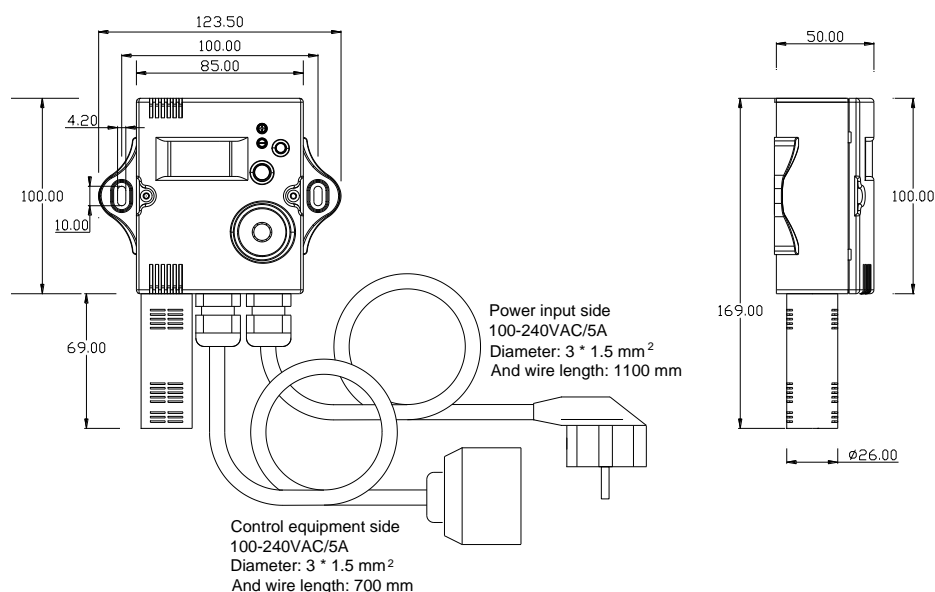
## Typical Application:

- ◆ TKG-CO2-1010D-PP Controller is used to control CO2 level in greenhouse and other similar applications, providing a max 8A relay on/off output to control a CO2 generator or a fan.
- ◆ For CO2 laboratory
- ◆ For ventilation system in greenhouse.
- ◆ The CO2 generator(default) or ventilator working mode can be preset by the end users

## Dimensions & Mounting

### Wall mounting with plug&play

probe Length	69.00mm
Probe Diameter	Ø26.00mm
Installation Holes	100.00mm
Power cable	1100.00mm
Cable to device	700.00mm
Power plug/socket	European American



## Shipping Information

Indiv. Ctn. Dim	255mm×130mm×115mm
Master Ctn. Qty	15 units
Master Ctn. Dim	49cm(L) ×36cm(W)×42cm(H)
Master Ctn. Net Wt.	20KGS