

Plug and Play Carbon Dioxide Controller



Applications

- Used to control CO2 concentration in greenhouse and other similar applications
- provides an max 8A relay on/off output to control a CO2 generator or a fan
- For ventilation systems in greenhouse
- The CO2 generator or ventilator working mode can be preset by end users



Scan the QR code to visit our website

www.iaqtongdy.com

info@tongdy.com

Product No: TKG-CO2-1010D-PP

Features

- Design for control the CO2 concentration in greenhouse/ mushrooms or other applications
- NDIR infrared CO2 sensor inside with Self-Calibration and up to 15 years lifetime.
- Plug & play type, very easy to connect the power and a fan or CO2 generator.
- 100VAC~240VAC range power supply with European or American power plug and power connector.
- A max. 8A relay dry contact output
- A photosensitive sensor inside for auto changeover of 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.

TKG-CO2-PP plug&play controller for greenhouses



Connect the controlled device

Connect the 100~240V power supply

European/American power plug& connector optional

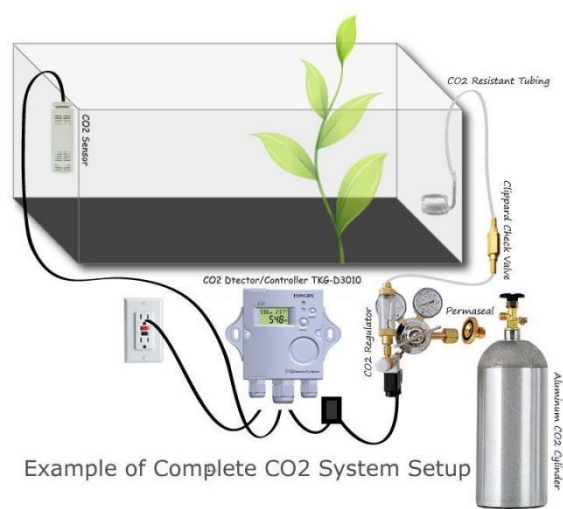


External sensor

Connect a controlled device

Connect 100~240V power supply

One application of the split controller and sensor



Specifications

CO ₂ Sensor	Non-Dispersive Infrared Detector (NDIR)
Measurement Range	0~2,000ppm(default) 0~5,000ppm (preset)
Accuracy	±60ppm + 3% of reading @22℃(72°F)
Stability	<2% of full scale over the life of the sensor
Calibration	Self-calibration system enable or disable
Response Time	<5 minutes for 90% step change at low duct speed
Non-linearity	<1% of full scale @22℃(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 optional	2 meter cable connection between the sensor and the controller
Power supply	100~240VAC

Consumption	1.8 W max. ; 1.0 W avg.
LCD display	Display CO ₂ measurement
Dry contact output (optional)	1xdry contact output Max. switch current: 8A (load resistance) SPDT relay
Plug& play type	100~240VAC power supply with European or American 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	IP40
Standard Approval	CE-Approval

Models

TKG-CO2-1010-PP	Plug-&-Play CO2 Controller	Plug & play controller with 1x 8A relay output to control a CO2 generator. 100~240VAC power supply. Photosensor inside for auto changeover of day/night mode.
TKG-CO2-3010-PP		Plug & play controller with a split external sensor in two meters. 1x 8A relay output to control a CO2 generator , 100~ 240VAC power supply. Photosensor inside for auto changeover of day/night mode.
TKG-CO2-1010D	CO2 Controller for greenhouses	CO2 controller with 1x 8A relay output to control a CO2 generator. 100~240VAC power supply. Photosensor inside for auto changeover of day/night mode.
TKG-CO2-3010D		CO2 controller with a split external sensor in two meters. 1x 8A relay output to control a CO2 generator. 100~ 240VAC power supply. Photosensor inside for auto changeover of day/night mode.

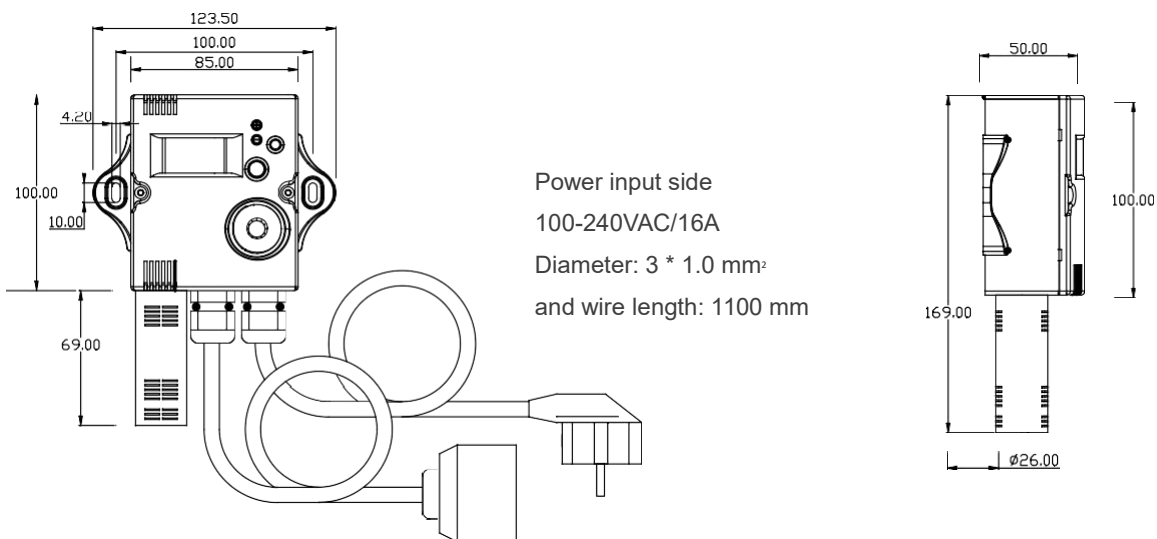
Typical Applications

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

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 or American



Control equipment side

100-240VAC/16A

Diameter: 3 * 1.0 mm²

and wire length: 700 mm

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