



TKG-CO2-1010D-PP

Plug and Play Carbon Dioxide Controller for Greenhouse

CE Approval

Features

- ◆ Design for control the CO₂ concentration in greenhouses or mushrooms
- ◆ NDIR infrared CO₂ 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 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.



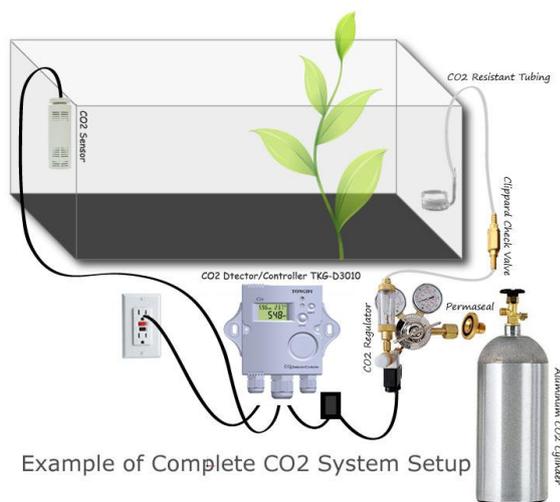
→ Connect the controlled device

→ Connect the 100V~240V power supply

European/American power plug & connector optional



One application of the split controller and sensor



Example of Complete CO₂ System Setup

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°C (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°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 optional	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 ₂ measurement
Dry contact output (optional)	1xdry contact output Max. switch current: 8A (load resistance) SPDT relay
Plug& play type	100VAC~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	IP30
Standard Approval	CE-Approval

Models

TKG-CO2-1010D-PP	CO2 Controller with plug-&-play for greenhouse	1x 5A relay output to control a CO2 generator. 100VAC~240VAC power supply. Photosensor inside for auto changeover of day/night mode. Plug-&-play connection.
TKG-CO2-3010D-PP		1x 5A relay output to control a CO2 generator. 100VAC~ 240VAC power supply. Photosensor inside for auto changeover of day/night mode. Plug & play controller with the split external sensor in two meter.
TKG-CO2-1010D	CO2 Controller for greenhouse without plug & play	1x 5A relay output to control a CO2 generator. 100VAC~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 5A relay output to control a CO2 generator. 100VAC~ 240VAC power supply. Photosensor inside for auto changeover of day/night mode.

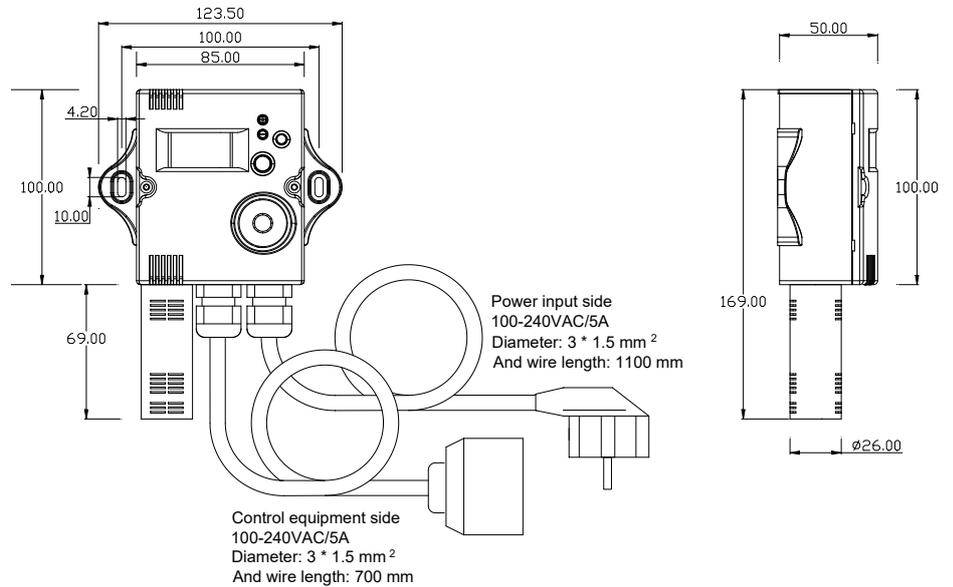
Typical Application:

- ◆ 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