# CO2 DETECTOR/ CONTROLLER WITH ALARM

**PRODUCT BROCHURE** 

#### PRODUCT DETAIL

- Real time carbon dioxide detection and monitoring
- Temperature and humidity detection and display
- Three-colour backlit LCD and buzzer alarm
- Provide 1 x on/off output to control a ventilator
- Wall mounting and desktop designs
- Can be used as standalone ventilation controller
- CE-approval



### FEATURES

- Designed for real time monitoring room CO<sub>2</sub>
- NDIR infrared CO<sub>2</sub> sensor with Auto Self Calibration
- Long life and reliable CO, sensor
- Temperature and humidity monitoring
- Three-colour (green/yellow/red) LCD backlit indicating ventilation optimal/moderate/poor based on CO<sub>2</sub> measurement
- Integrated buzzer alarm and warning through backlight colour change
- Provide optional 1x relay output to control ventilation
- Easy touch override button
- Choice of mains 240VAC or 24VAC/VDC power selectable while ordering; power adaptor available; desktop and wall mounting type versions available
- EU standard and CE-approval





### **APPLICATION**

- New HWM CO<sub>2</sub> monitor/alarm is used for monitoring room CO<sub>2</sub> level, as well as room temperature and humidity. It provides one on/off output to control ventilation with four CO<sub>2</sub> levels presetting. Especially it provides both buzzer alarm and three colours backlit switching alarm.
- Hotel, exhibition hall, hospital, shop, restaurant, air port, train station, theatre and other public places
- House, villa, office, meeting room, classroom and other rooms
- All ventilation systems

SPECIFICATIONS			
Target gas	Carbon Dioxide (CO <sub>2</sub> )		
Sensing element	Non-Dispersive Infrared Detector (NDIR)		
Accuracy@25°C (77°F)	±60ppm + 3% of reading		
Signal Stability	<2% of FS over life of sensor (15 years typical)		
Calibration interval	Auto Self Calibration Algorithm		
NDIR life	15 years		
Response Time	<2 minutes for 90% step change		
Signal refresh rate	Every 2 seconds		
Warm up time	<3 minutes (between operations)		
CO <sub>2</sub> Measuring range	0~5,000ppm		
CO <sub>2</sub> Display resolution	lppm		
Power supply	100~240VAC or 10~24VAC/VDC (please select when placing order)		
Consumption	3.5 W max. ; 2.5 W avg.		
Temperature sensor	NTC 5K		
Humidity sensor	Capacitive sensor		
Temperature measuring range	-20~60°C (-4~140°F)		
Humidity measuring range	0~99%RH		
Relay output (optional)	One relay output with 3A rated switching current (resistive load only)		
Operation conditions	0~50°C (32~122°F); 0~95%RH, non-condensing		
Storage conditions	-10~60°C (14~140°F) 5~95%RH non condensing		
Weight	200g		
Dimensions	130mm(H)×85mm(W)×36.5mm(D)		
Installation	Desktop and wall mountable (65mm×65mm or 2″×4″ wire box)		
Housing and IP class	PC/ABS fireproof plastic material, protection class: IP30		
Standard	CE-Approval		



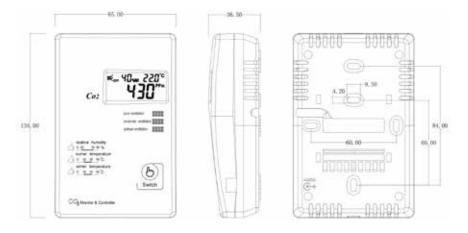


MODELS SELECTION					
Model	Name	Description	Power Supply	Туре	
HWM-CO2-B32OD	CO <sub>2</sub> , temperature and humidity monitor/alarm	Three-colour backlit LCD, buzzer alarm	100~240VAC	Wall mounting	
HWM-CO2-B32OD-NR	CO <sub>2</sub> and temperature monitor/alarm (no RH option)	Three-colour backlit LCD, buzzer alarm	100~240VAC	Wall mounting	
HWM-CO2-B331C	CO <sub>2</sub> , temperature and humidity monitor/alarm	Three-colour backlit LCD, buzzer alarm	18~24VAC/VDC with a DC socket	Wall mounting	
HWM-CO2-B331C-NR	CO <sub>2</sub> and temperature monitor/alarm (no RH option)	Three-colour backlit LCD, buzzer alarm	18~24VAC/VDC with a DC socket	Wall mounting	
HWM-CO2-B34OC	CO <sub>2</sub> , temperature and humidity monitor/con- troller	Three-colour backlit LCD, buzzer alarm; 1 on/off output; touch-key for operation	18~24VAC/VDC	Wall mounting	
HWM-CO2-B34OC-NR	CO <sub>2</sub> and temperature monitor/controller (no RH option)	Three-colour backlit LCD, buzzer alarm; 1 on/off output; touch-key for operation	18~24VAC/VDC	Wall mounting	
HWM-CO2-B340D	CO <sub>2</sub> , temperature and humidity monitor/con- troller	Three-colour backlit LCD, buzzer alarm; 1 on/off output; touch-key for operation	100~240VAC	Wall mounting	
HWM-CO2-B340D-NR	CO <sub>2</sub> and temperature monitor/controller (no RH option)	Three-colour backlit LCD, buzzer alarm; 1 on/off output; touch-key for operation	100~240VAC	Wall mounting	
HWM-CO2-B360D	CO <sub>2</sub> , temperature and humidity monitor/con- troller	Three-colour backlit LCD, buzzer alarm; 2 on/off output; touch-key for operation	100~240VAC	Wall mounting	
Optional Accessories					
870	Power adaptor	Input:100~240VAC, Output: DC 24V/ 240mA	Just for G01-C02-B331C or G01-C02-B331C-NR		
921	Wall mounting plate	Accessory for wall mounting			
921+922	Desktop bracket	As be the desktop type	Just for G01-C02-B331C or G01-C02-B331C-NR		

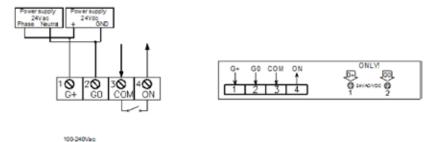


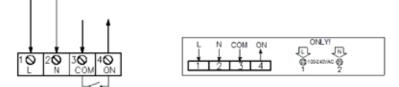


## DIMENSIONS AND MOUNTING

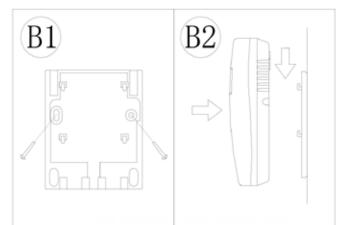


## WIRING DIAGRAM

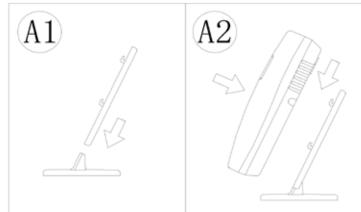




## 921-WALL MOUNTING PLATE



Mounting base bracket (921)



Desktop bracket (921+922)



