

Room IAQ Monitor / Alarm



Applications

- Ambiance air quality detection and alarm
- Ventilation systems
- Air cleaning systems
- Bas systems
- Offices, schools and other indoor spaces



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www.iaqtongdy.com

info@tongdy.com

Product No: G02-VOC

- Real-time indoor air quality detection and alarm
- High sensitivity to VOC's and other indoor contaminative gases
- Temperature and humidity detection and display
- Three-color backlit LCD and optional buzzer alarm
- Option of 1x on/off output and 1x 0~10V/4~20mA linear output
- Option of RS485 interface
- A dedicated VOC's baseline calibration mode for users
- Excellent performance for indicating indoor air quality

Features

- Real-time monitor ambience air quality
- Semiconductor mix gases sensor with more than 5 year lifetime
- Gas detection: cigarette smoke, VOC such as formaldehyde and toluene, ethanol, hydrogen sulfide, sulfur dioxide and other harmful gases
- Temperature and humidity display
- Three-color (green/orange/red) LCD backlit indicating air quality at optimal/moderate/poor
- Provides users with an on-site VOC baseline calibration method
- Option of one relay output to control a ventilator
- Option of RS485 communication
- Four power supply types optional, and power adaptor available; desktop and wall mounting
- Wall mounting or desktop placement
- EU standard and CE-approval



G02-VOC monitor is specially designed to detect indoor air quality in offices and home environments, and make invisible pollution visible.

As there are many kinds of harmful gases in the air, it becomes prohibitively expensive to monitor every single gas. It is recommended that CO and IAQ be monitored at home, and CO₂, CO and VOC in classroom and office.

The internal mix gases sensor has high sensitivity not only to VOC's such as toluene and formaldehyde from wood finishing and construction products but also to other air contaminants which are emitted by cigarette smoke, ammonia, hydrogen sulfide etc. It's also sensitive to carbon monoxide, alcohol, disinfectant and other bad smells. So it is more suitable for monitoring IAQ than any other sensor that for a single kind of gas.

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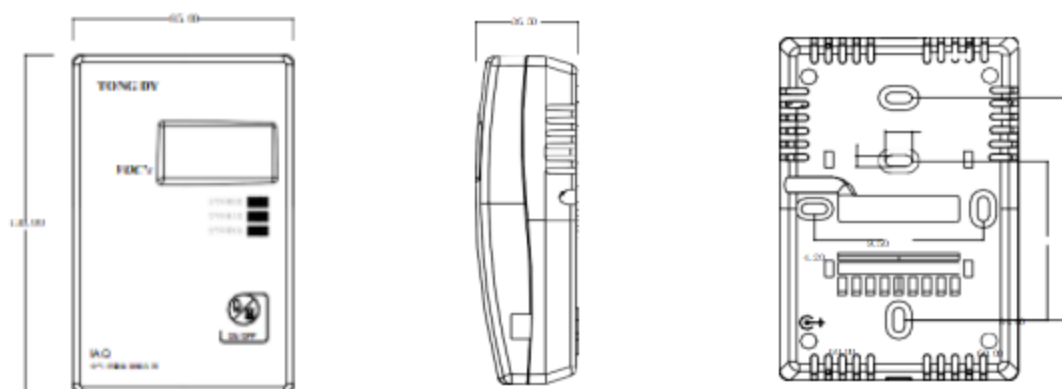
Specifications

Gas detection	Highly sensitive to a lot of harmful gases, such as harmful gases from construction and decoration materials, VOC (like toluene and formaldehyde); Cigarette smoke; Ammonia and H ₂ S and other gases from household wastes; CO, SO ₂ from cooking and burning; Alcohol, Natural gas, detergent and other bad smells etc.	
Sensing element	Semiconductor mix gas sensor of long working life and good stability	
Signal update	1s	
Warm up time	72 hours (first time), 1 hour (normal operation)	
VOC measuring range	0.1~30ppm (1ppm= 1 part per million)	
Display resolution	0.1ppm	
Temperature & Humidity Sensor	Temperature	Relative Humidity
Sensing element	digital temperature and relativehumidity	sensor platform
Measuring range	0~50°C	0~100%RH
Accuracy	±0.5°C (25°C, 40%-60%RH)	±4%RH (25°C, 40%-60%RH)
Display resolution	0.5°C	1%RH
Stability	±0.5°Cper year	±1%RH per year
Relay output	1xrelay output to control a ventilator or air purifier, max current 5A resistance (220VAC)	
Analog output	1x0-10V(default) or 4-20mA; 1x0~5V linear output	
Warning alarm	3- colors backlit and buzzer alarm when VOC's exceeds 22ppm	
LCD backlit	Green—optimal air quality ▶ enjoy the air quality Orange—moderate air quality ▶ ventilation suggested Red—poor air quality ▶ ventilation immediately	
RS485 interface (option)	Modbus RTU, 9600bps/19200bps	
Operation condition	-20°C~60°C (-4°F~140°F), 0~ 95% RH	
Storage conditions	0°C~50°C (32°F~122°F), 5~ 90% RH	
Net Weight	190g	
Dimensions	130mm(L)×85mm(W)×36.5mm(H)	
Installation standard	Desktop or wall mount (65mm×65mm or 85mmX85mm or 2"×4" wire box)	
Wiring standard	Wire section area <1.5mm ²	
Power supply	12VDC; 24VAC/VDC 220VAC; 100~240VAC	
Consumption	2.8 W	
Quality System	ISO 9001	
Housing	PC/ABS fire-proof, IP30 protection	
Certificate	CE	

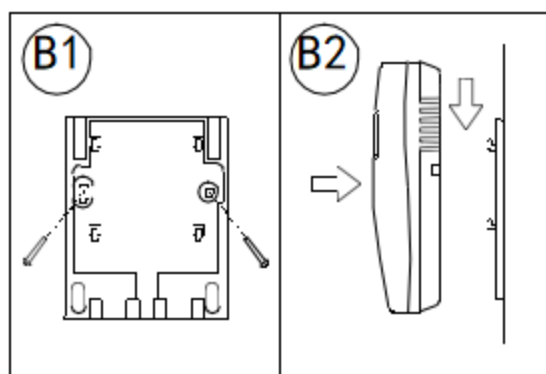
Models

Model	Name	Description	Power	Type
G02-VOC-B320A	IAQ monitor	Three-color backlit LCD, buzzer alarm	220VAC	Wall mounting
G02-VOC-B332C	IAQ monitor	Three-color backlit LCD, buzzer alarm	24VAC/VDC, with DC socket and a power adaptor	desktop, with a bracket
G02-VOC-B340D	IAQ monitor/controller	Three-color backlit LCD, buzzer alarm; 1 on/off output; touch-key for operation	100~240VAC	Wall mounting
G02-VOC-B310C	IAQ monitor	Three-color backlit LCD, buzzer alarm. Modbus RS485 interface	24VAC/VDC	Wall mounting
G02-VOC-B380D	IAQ monitor	Three-color backlit LCD, buzzer alarm; 1 on/off output; touch-key for operation. Modbus RS485 interface	100~240VAC	Wall mounting
G02-VOC-B350C	IAQ monitor	Three-color backlit LCD, buzzer alarm. 1x analog linear output.	24VAC/VDC	Wall mounting
G02-VOC-B350G	IAQ monitor	Three-color backlit LCD, buzzer alarm. 1x 0~5VDC linear output.	12VDC	Wall mounting
G02-VOC-B370C	IAQ monitor	Three-color backlit LCD, buzzer alarm. 1x 0~10VDC/4~20mA linear output. Modbus RS485 interface	24VAC/VDC	Wall mounting
921	Wall mounting plate	Accessory for wall mounting type.		
922	Desktop bracket			

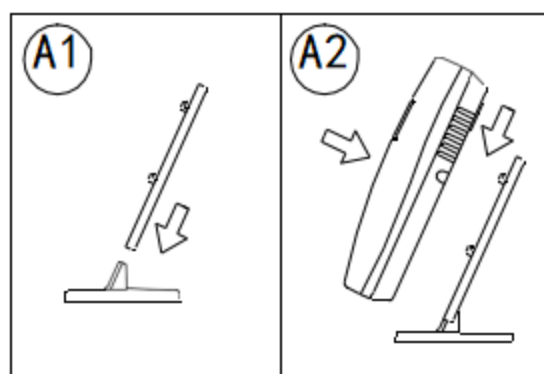
Mounting and Dimensions



Wall mounting



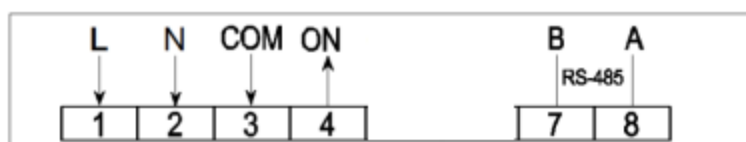
Wall mount with the backplane-921



Desktop bracket -922

Wiring Diagrams

G02-VOC-3XXA/D



G02-VOC-3XXC/G

