VOC Tester

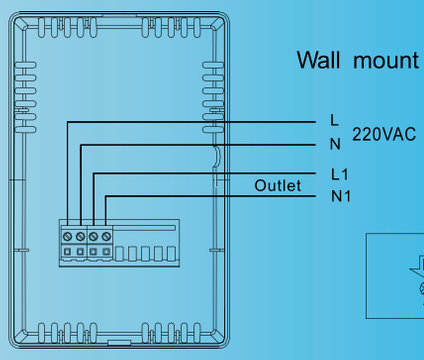
111

112

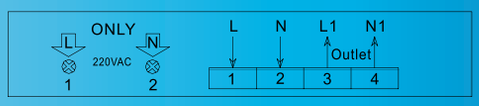
- **Models: VOC 111 (wall mounted)**
  VOC 112 (table top)
- **Real time indoor air quality detection and alarm**
- **Three-color backlit LCD and buzzer alarm**
- **Temperature and humidity detection and display**
- **High sensitivity to VOC and other indoor contaminative gases**
- **Provide 1x on/off output to control ventilator**
- **Excellent performance**

Features

- ► Real time monitor ambiance air quality
- ► Semiconductor mix gases sensor with 5 years usage and 1 year warranty against manufacturer's defect
- ► Gas detection: cigarette smoke, VOCs such as formaldehyde and toluene, ethanol, ammonia, hydrogen sulfide, sulfur dioxide and other harmful gases
- ► Monitor temperature and relative humidity
- ► Three-color (green/yellow/red) LCD backlit indicating air quality at optimal/moderate/poor
- ► Preset warning point of buzzer alarm and backlight
- ► Provide one relay output to control a ventilator
- ► High quality technics and elegant appearance, best choice for home and office
- ► 220VAC or 24VAC/VDC power selectable; power adaptor available; desktop and wall mounting type available
- ► EU standard and CE-approval



Wall mount wiring



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IAQ is a comprehensive index, including room temperature, humidity, fresh air and diverse air contaminants of low concentration. Monitoring IQA is very important to guarantee healthy life and working environment. Air pollution caused by decoration, paints on new furniture or wall, smoke from cigarette, and cookers has become an invisible killer to humans, especially to infants, pregnant mothers and senior citizens. It can also cause nerve disorder or weak immunity, which is a potential danger to health.

So the key point is to monitor and control the environment we live in, and make invisible pollution visible. As there are many kinds of harmful gases in the air, it has become really costly to monitor every single kind of air. It is recommended that CO and IAQ be monitored at home and CO_2, CO and VOC's in classrooms and offices.

111 & 112 VOC monitor is specially designed to detect indoor air quality in offices, homes and classroom environments. Its internal mix gases sensor has high sensitivity not only to VOC's such as toluene, formaldehyde from wood finishing and construction products but also to other air contaminants which are emitted by cigarette smoke, ammonia, hydrogen sulphide etc. It is also sensitive to carbon monoxide, alcohol, disinfectant and other bad odours. It is suitable for monitoring IAQ than any other sensor that only detects single kind of gases.

■ Specifications

Gas detection	Highly sensitive to many harmful gases, such as gases from construction and decoration materials, VOCs (like toluene and formaldehyde); Cigarette smoke; Ammonia and H_2S 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
Temperature sensor	NTC 5K
Humidity sensor	HS series capacitive sensor
Power supply	9~ 24VAC/VDC, 220VAC±10%, 50/60HZ
Consumption	2.8W
Signal update	1s
Warm up time	72 hours (first time), 10 mins (normal operation)
VOC measuring range	0~30ppm (1ppm=1 part per million)
Display resolution	0.1 ppm
VOC setting resolution	0.1ppm
Temperature measurement range	0~50°C comfortable range for human: summer 22~28°C / winter 18~24°C
Humidity measurement range	0~99%RH comfortable range for human: 30~70%RH
Output	1x Relay output to control a ventilator or air-purifier, max current 3A resistance (220VAC)
Warning alarm	Inner buzzer alarm and also three colors backlit switch as well
Buzzer alarm	Alarm starts when VOC value above 22ppm
LCD backlit	Green-optimal air quality ► enjoy the air quality Yellow-moderate air quality ► ventilation suggested Red-poor air quality ► ventilation immediately
Operation condition	-20°C~60°C (-4°F~140°F)/0~95%RH
Storage conditions	-40°C~70°C (-40°F~194°F)/5~95%RH
Net Weight	190g
Dimensions	130mm(L)x85mm(W)x36.5mm(H)
Installation standard	Desktop or wall mount (65mmx65mm or 85mmx85mm or 2"x4" wire box)
Wiring standard	Wire section area <1.5mm^2
Quality System	ISO 9001
Housing	PC/ABS fire-proof, IP30 protection
Certificate	CE

■ Applications

- ► Hospitals, dialysis centres, burn units, minor O.T.'s, Ophthalmology centres, manufacturing plants, food processing plants, chemical laboratories, offices and homes.
- ► Monitoring of HVAC systems in buildings.
- ► Monitoring of VOC levels in customer service centres involving the use of many computers.

Contact details

Sales Inquiry