



ELTECH OZONE PVT LTD is the group company of **ELTECH ENGINEERS PVT LTD**, established in 1992. Eltech Ozone Pvt Ltd is an ISO 9001: 2015 and CE certified Indian Company manufactures different types of Ozone Generators from 1 Gm/hr to 2 kg/hr. It is an Independent and worldwide active company for Research, Development, Production and Sale of High graded Ozone Generators and Ozone Monitors for virtually each of ozonator applications.

AIR MONITOR FOR THE MEASUREMENT AND CONTROL OF VOC's IN AIR

Our CO₂ + TVOC + Temperature & Humidity Monitoring systems are used in a wide range of monitoring and control applications including TVOC of commercial and residential buildings STP Exhaust / OWC Room. Gas sensitive semiconductor technology allows ppb level detection with high accuracy and stability at a fraction of the cost of analyzer based instruments.

Suitable for Residential Basement, Hospitals, Pharmaceutical, Laboratories, Factories, Offices and other places where Ozone generator are installed to monitor the leakage of Ozone Gas.

CO₂+TVOC+Temperature&Humidity Monitoring

- ✓ Real time indoor air quality detection and alarm
- ✓ Monitoring carbon dioxide and TVOC (mix gases)
- ✓ Temperature and humidity detection and display
- ✓ Three-color backlit LCD
- ✓ Buzzer alarm available
- ✓ 1xon/off output optional to control a ventilator
- ✓ Wall mounting and desktop placement
- ✓ Excellent performance with easy operation



■ Features

- ◆ Real time indoor air quality monitoring with CO₂ plus TVOC and Temp.&RH
- ◆ NDIR CO₂ sensor with special Self-Calibration makes the CO₂ measurement more accurate and more reliable.
- ◆ More than 10 years lifetime of CO₂ sensor
- ◆ More than 5 years lifetime of Semi-conductor TVOC (mix gases) sensor
- ◆ Digital temperature and humidity sensor with more than 10 years lifetime
- ◆ Three-color (green/yellow/red) LCD backlight
- ◆ Buzzer alarm available
- ◆ Optional 1xrelay output to control a fan
- ◆ Easy operation by the touch button
- ◆ Perfect performance in low cost for IAQ detection and monitoring
- ◆ 220VAC or 24VAC/VDC power supply selectable; power adaptor available;
- ◆ Desktop and wall mounting available
- ◆ Application in classrooms, offices, hotels and other public rooms

■ Monitoring Focus

Carbon Dioxide (CO₂)

Indoor CO₂ level is a universal accepted parameter for the condition of indoor ventilation and air quality.

- Non-dispersive infrared (NDIR) CO₂ sensor with more than 10-year lifetime
- ABC self-calibration technology guarantees reliable CO₂ measurement

- CO₂ range: 0~2000ppm or 0~5000ppm
- Rapid response, high stability and consistency

Mix Gases (TVOC-Total Volatile organic compound)

VOC emitted from building materials, decoration materials and furniture, includes toluene, ammonia, H₂S, formaldehyde and other harmful gases. It's necessary to real time detect these harmful gases. But it's costly to use the professional instruments to detect each single gas. Also it's possible to monitor for daily use. These gases exist in air for a long time and their volatilization level are different in different temperature and humidity, the reliability of such detection by a professional instrument for a single gas is very limited.

This multifunction IAQ monitor uses a mix gas sensor. It has high sensitive to kinds of volatile pollutant gases (VOC) such as ammonia, toluene, formaldehyde and cigarette smoke, alcohol, H₂S, and carbon monoxide. So it is very suitable to monitor the general indoor air quality in real time and long term. The mix gases sensor responds quickly to any change of the concentration of such gases. Not only you may open windows for fresh air coming but also the monitor can control a ventilator/air-cleaning device based on the indication and alarm.

- Built in the semi-conductor mix gases sensor
- 5~7 years life time
- High sensitive to volatile gases like ammonia, toluene, formaldehyde, sensitive to cigarette smoke, alcohol, H₂S, etc.
- Small volume, lower consumption

Temperature and humidity

Switzerland digital temperature/humidity sensor built in with high accuracy and stability. It also has compensation to CO₂ and TVOC which makes the measurements more accurate by minimizing environmental effects.

LCD Display



■ Application

G01-CO₂-B5 monitor is designed to monitoring room air quality including CO₂ and TVOC, as well as room temperature and humidity. It detects and monitors indoor IAQ level. It provides one on/off output to control a ventilator according with the CO₂ or TVOC measurement or according with both of them.

It provides both buzzer alarm and three colors backlit switching alarm.

- Hotel, exhibition hall, hospital, shop, restaurant, air port, train station, theater and other public places
- House, villa, office, meeting room, classroom and other rooms
- All ventilation systems

Eltech Ozone Pvt Ltd

■ Specifications

Monitoring parameters	CO ₂	TVOC	Temperature	Relative humidity
Sensor	Non-Dispersive Infrared Detector (NDIR)	Semiconductor mix gases sensor	Digital combined temperature and humidity sensor	
Measuring range	0~5000ppm	1~30ppm	-20~60°C	0~100%RH
Display Resolution	1ppm	5ppm	0.1°C	0.1%RH
Accuracy@25°C(77°F)	±60ppm + 3% of reading	±10%	±0.5°C	±4.5%RH
Life time	15 years (normal)	5~7 years	10 years	
Stability	<2%	—	<0.04°C per year	<0.5%RH per year
Calibration cycle	ABC Logic Self Calibration	—	—	—
Response Time	<2 minutes for 90% change	<1 minute (for 10ppm hydrogen, 30ppm ethanol) <5 minute (for a cigarette) in 20m ² room	<10 seconds to reach 63%	
Warm up time	72 hours (first time) 1 hour (operation)			
Electrical Characteristics				
Power supply	100~240VAC 18~24VAC/VDC with the power adaptor available			
Consumption	3.5 W max. ; 2.5 W avg.			
Display and Alarm				
LCD Display	<p>Green: CO₂<1000ppm (optimal air quality) TVOC: — or — (low pollution)</p> <p>Yellow: CO₂>1000ppm (moderate air quality) TVOC: — — — or — — — — (medium pollution)</p> <p>Red: CO₂>1400ppm (poor air quality) TVOC: — — — — — or — — — — — (heavy pollution)</p> <p>Two modes selectable: both CO₂ and TVOC over the above setpoints(default) Either CO₂ or TVOC over the above setpoint</p>			
Conditions of Using and Installation				
Operation conditions	-10~50°C (14~122°F); 0~95%RH, non condensing			
Storage conditions	0~50°C (32~122°F)/ 5~90%RH			
Weight	200g			
Dimensions	130mm(L)×85mm(W)×36.5mm(H)			
Installation	Desktop or wall mount (65mm×65mm or 85mm×85mm or 2"×4" wire box)			
Housing IP class	PC/ABS, protection class: IP30			

ELTECH OZONE PVT LTD

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