

TPI 1001 Instruction Manual

Introduction

Thank you for purchasing TPI products. The TPI 1001 is an indoor air quality monitor designed to measure indoor carbon dioxide (CO2) levels, temperature, humidity, and volatile organic compounds (VOC) such as formaldehyde and toluene.

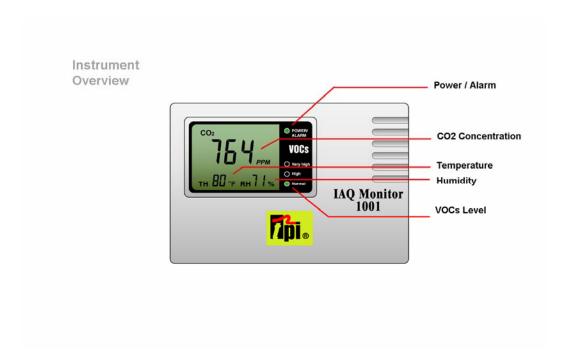
General Guidelines

ALWAYS

- Position the TPI 1001 so it is easy to see the display.
- Use only the included power adapter.

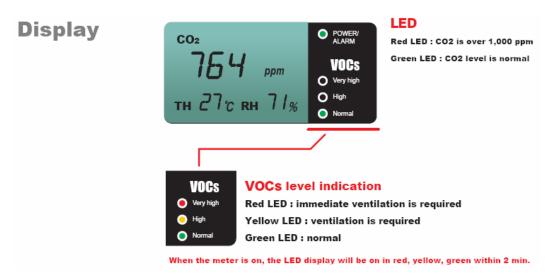
NEVER

Cover the sensor area.



WARNING! If the red VOC indicator light illuminates immediately ventilate the area.

- 1. Step-by-Step Procedures
- a. Connect the power supply adapter to the TPI 1001.
- b. Connect the power supply to an appropriate wall outlet. The green power light will illuminate and the display will activate.
- c. Allow the TPI 1001 to warm up. This will take approximately one minute.
- d. The display will show the carbon dioxide level (CO2), temperature, and humidity of the area being monitored. The VOC level is indicated by a series of LED's.



SPECIFICATIONS

CO ₂ sensor	
Measurement Range	100 ppm - 5000 ppm
Sensitivity	±20ppm ±1%
Accuracy	±20ppm ±5%
Sensor type	NDIR (Non dispersive infrared)
Response time	=> T95 within 150 seconds of gas reaching sensor (95% of 0~1600ppm)
Warm-up time	less than 1 min
General	
Power supply	12VDC
Power consumption	40mA
Operating temperature	0 - 50°C
Operating humidity	0 - 95%
Storage temperature	-20°C - +50°C
VOCs sensors	
Sensor type	Semi-Conductor
Gases detected	Formaldehyde, Toluene, cigarette smoke, etc.
LEVEL indications	Red at more than 5 ppm (danger) Yellow at more than 3 ppm (caution) normally Green at below 2 ppm ** concentration might change according to temperature and humidit So this indication should be reference of air pollution.

Temperat	ure	
Range	-20°C - +60°C	
Accuracy	±1°C	
Humidity		
Range	0% - 100%	
Accuracy	±1%	
Dimensio	ns	
Size	15×20×10cm	
Weight	200 g	