

Datasheet: CO2 Temperature & Humidity Monitor with Alarm



The Tongdy CO2, temperature and humidity monitor with Alarm lets you quickly and easily check indoor air quality in any room. Use it in stand-alone mode to monitor air quality with its easy-to-read backlit LCD display that quickly changes from green to yellow to red as air quality declines. Above 1,800 ppm, a built-in buzzer warns you that CO2 levels have become too high for indoor comfort. You can also read the individual air quality readings directly from the display.

Need more control? Use the monitor's built-in on/off relay to automatically turn on a fresh-air fan or ventilation system.

With its single-button ease of use and simple 110VAC power requirements, the Tongdy CO2, Temperature and Humidity monitor with Alarm is perfect for homes, offices, meeting rooms, classrooms, or anywhere monitoring indoor air quality is important for occupant's comfort.

- **Real-time Carbon Dioxide Monitor with Alarm**
- **Measures Temperature & Relative Humidity**
- **3-Color backlit LCD to Easily Check IAQ**
- **Wall-Mount**

CO2 Sensor

Measurement Range	0 – 5,000 ppm
Sensing Method	non-dispersive infrared (NDIR) waveguide technology with ABC automatic background calibration algorithm
Sampling Method	diffusion
Response Time (T _{1/e})	< 2 minutes for 90% step change
Signal update	Every 2 seconds
Warm up time	2 hours after initial power up for ABC calibration, 2 minutes on subsequent use

Temperature and Humidity Sensors

Relative Humidity Range	0 – 95% RH
Temperature Range	32 – 122°F (0 - 50°C)

General Performance

Operating Temperature Range	32 – 122°F (0 to 50 °C), 0 – 95% RH non condensing
Storage Temperature Range	14 – 140°F (-10 to +60 °C), 5 – 95% RH non condensing
Sensor Life Expectancy	> 15 years
Maintenance Interval	no maintenance required
Self-Diagnostics	complete function check of the sensor module
Warm-up Time	≤ 1 min
Conformance with the standards.....	CE-Approval
Operating Environment	Residential & business indoor spaces.

Electrical/Mechanical

Power Input.....	TON-0001: 100-240VAC, TON-0011 24VAC.
Current Consumption	2.5 W average, 3.5 W Max both models
Relay	One output with 3A rated switching current, resistance load
Housing	PC/ABS fireproof plastic material; protection class IP30
Dimensions	130mm (H) × 85mm (W) × 36.5mm (D), 200g

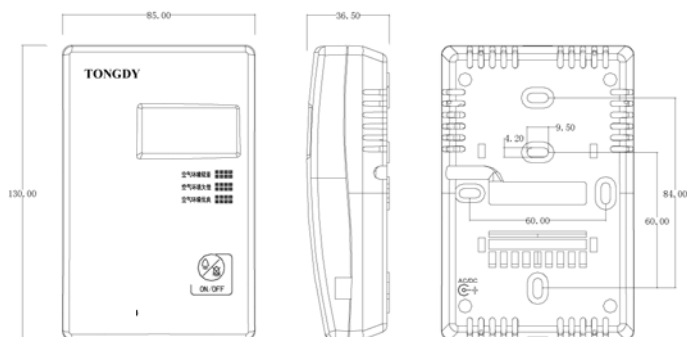
Models:

TON-0001: 100-240VAC
TON-0011: 24VAC

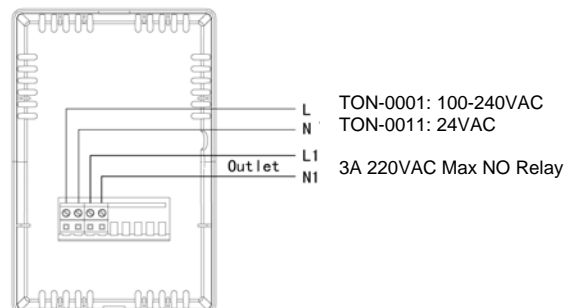
See website for additional models with VOC sensors & without displays.

Warranty

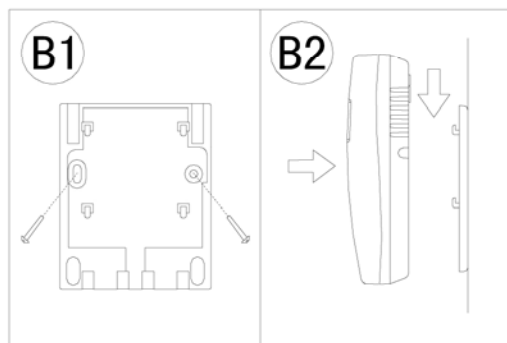
1 Year



Wall mount wiring



Wall mounting-base bracket



Desktop- bracket

