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 (T½) .................... < 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

**Warranty**

1 Year

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**Models:**

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

See website for additional models with VOC sensors & without displays.
TON-0001: 100-240VAC
TON-0011: 24VAC
3A 220VAC Max NO Relay