

## Datasheet: CO2 Transmitter with Display



The Tongdy CO2 Transmitter lets you transmit, control and monitor indoor air quality.

- Use it to transmit ambient carbon dioxide levels to an HVAC or demand controlled ventilation system. CO2 levels can be sent as industry standard 4-20mA or 0-10V signals back to a control panel.
- Use it 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. You can also read the CO2 level directly from the display.

With its single-button ease of use and industry-standard 24V power requirements, the Tongdy CO2 Transmitter with Display is perfect for homes, offices, meeting rooms, classrooms, or anywhere monitoring and controlling indoor air quality is important for occupant's comfort.

- **Real-time Carbon Level Transmitter and Monitor**
- **3-Color backlit LCD to Easily Check IAQ**
- **Industry-Standard 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 <sub>1/e</sub> ) .....	< 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

### 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 .....	≤ 5 minutes
Conformance with the standards.....	CE-Approval
Operating Environment .....	Residential & business indoor spaces

### Electrical/Mechanical

Power Input.....	24 VAC/VDC
Current Consumption .....	2.8 W average, 3.5 W Max.
Signal Output .....	4-20mA or 0-10V Standard
Housing .....	PC/ABS fireproof plastic material; protection class IP30
Dimensions .....	130mm (H) × 85mm (W) × 36.5mm (D), 200g

### Warranty

Model TON-0002	1 Year
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