

Datasheet: Tongdy VOC Detector with Relay



Monitor and display Indoor Air Quality by detecting volatile organic compounds like toluene emitted from wood finishing and construction products, cigarette smoke, carbon monoxide, ammonia, hydrogen sulfide, alcohol, natural gas and body odor.

FEATURES:

- Real-time detection of Indoor Air Quality
- High Sensitivity to VOCs and indoor air contamination
- Attractive Wall-mounted case with 6 lights to indicate air quality levels
- Temperature and humidity compensation for consistent measurement
- 5 to 7 year lifetime

Indoor air quality is a comprehensive concept involving many gases that can cause occupant discomfort or irritation in a closed environment. This meter is specifically designed to detect room IAQ levels, display IAQ levels in an easy-to-identify way, and includes a relay and RS485 interface to control ventilation when poor IAQ levels are detected.

Specifications

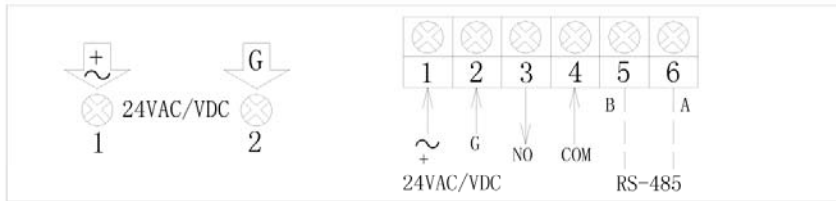
Gases Detected	VOCs
Sensing Element.....	Semiconductor Gas Sensor
Measuring Range	30 ppm
Power Supply	24VAC/VDC
Power Consumption	2.5 Watts
Sensor Frequency.....	1 Reading per Second
Initial Warm Up Time	48 Hours after Installation
Warm Up Time.....	10 Minutes
Operation - 6 Indicator Lights	Green Light - Best Air Quality 2 Green Lights - Better Air Quality Yellow Light - Good Air Quality 2 Yellow Lights - Poor Air Quality Red Light - Poor Air Quality 2 Red Lights Poorest Air Quality
Mod Bus Interface.....	RS485 with 19200 Bps (Default)
Mod Bus Specifications	15 KV Antistatic Protection, Independent Base Address
Relay Output	1 Dry Contact Output NO Rated Switching Current 2A (Resistance Load)
Temperature Range	0-50°C (32-122°F)
Humidity Range.....	0-95% Relative Humidity (Non-Condensing)
Weight	190 Grams
Dimensions	100x80x28 mm
Installation Standard.....	65x65 mm Or 2x4" Wire Box
Housing	PC/ABS Plastic Fireproof Material, IP30 Protection Class
Wiring Terminals.....	Power, RS485, Relay
CE Approval.....	EMC 60730-1, 2000 +A1:2004 +A2:2008 Directive 2004/108EC Electromagnetic Capability

Applications

- Homes
- Offices
- Theaters
- Shops
- Restaurants

Note: VOC detectors cannot be used as a gas safety alert. They are designed to maximize indoor air quality only.

□ Wiring Diagrams



Power, Relay, RS-485

NO Relay set via on-board jumpers

□ Mounting

