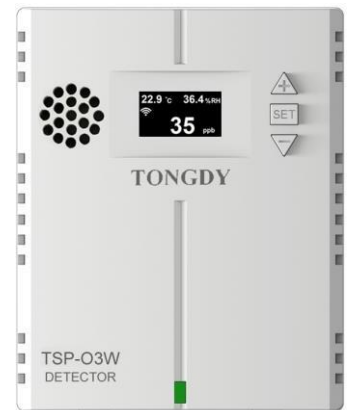


TSP-O3

Ozone Detector and Controller

- Real-time detecting and monitoring ambience ozone level
- Electrochemical ozone sensor inside, with temperature compensation.
- Humidity monitoring optional.
- Alarm buzzle is available with setpoint preset
- Ozone sensor module design, easy to replace.
- Optional OLED display with operation buttons.
- One relay output to control an ozone generator or ventilator, with two control way and setpoints selection.
- One analog output for ozone measurement value.
- Modbus RS485 communication Interface.
- 24VAC/VDC power supply.



Applications

- Real-time measure ozone in air
- Control ozone generator or ventilator.
- Detect ozone data and connect to BAS system.
- Sterilization and disinfection/ Health supervision/ Fruit and vegetable ripening/ Air quality detection etc.

Specifications

General Data	
Power Supply	24VAC/VDC±20% A power adaptor of 100~230VAC/24VDC selectable
Power Consumption	2.0W (average power consumption)
Wiring Standard	Wire section area <1.5mm ²
Working Condition	-20~50°C / 15~95%RH
Storage Conditions	0°C~35°C, 0~90%RH (no condensation)
Dimensions/ Net Weight	95(W)X117(L)X36(H)mm / 260g
Manufacturing Process	ISO 9001 Certified
Housing and IP class	PC/ABS fireproof plastic material, protection class: IP30
Compliance	CE-EMC certified
Sensor Data	
Sensing Element	Electrochemical Ozone sensor
Sensor lifetime	>2 years, Sensor modular design, easy to replace.
Warm up Time	<60 seconds

Response Time	<120s @T90
Signal Update	1s
Measuring Range	0-500ppb/1000ppb(default)/5000ppb/10000ppb optional
Accuracy	±20ppb + 5% reading
Display Resolution	1ppb (0.01mg/m3)
Stability	±0.5%
Zero Drift	<1%/Y
Humidity Detection	Option

Outputs

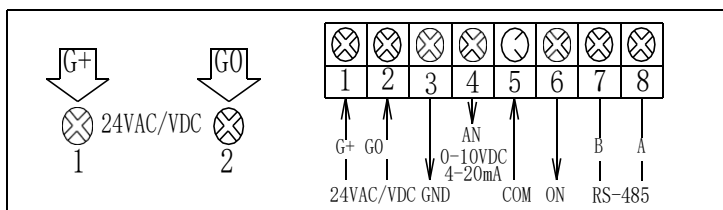
Analog Output	One 0-10VDC or 4-20mA linear output for ozone detection
Analog Output Resolution	16Bit
Relay dry contact Output	One relay output to control an ozone generator or a fan Max, switching current 5A (250VAC/30VDC), resistance Load
Communication Interface	Modbus RTU protocol with 9600bps (default) 15KV antistatic protection
LED Light	Green light: normal working Red light: Ozone sensor fault
Display Screen (optional)	OLED display ozone and temperature/T&RH.

Modes Guide

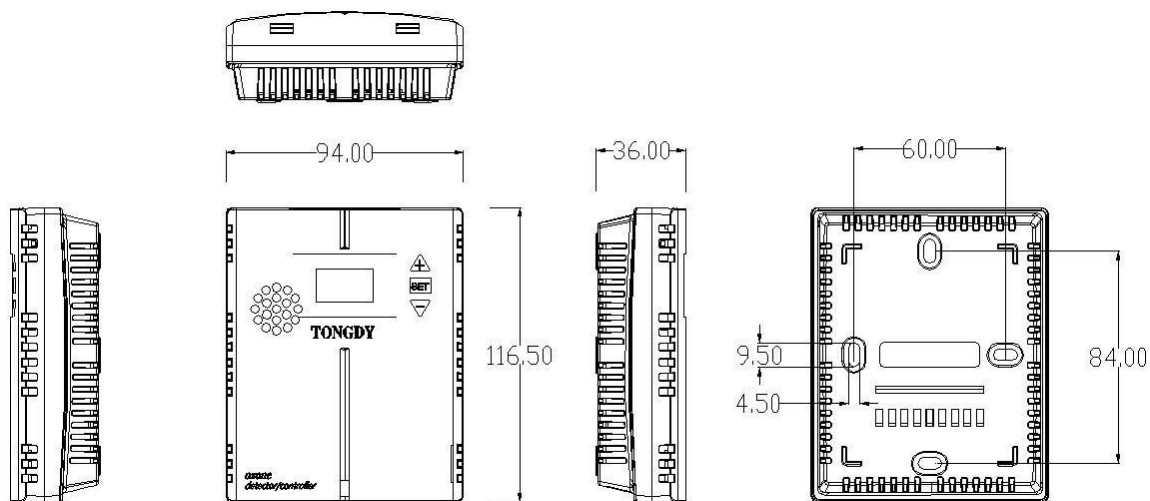
Model		Description
Ozone Monitor/ Controller	TSP-O3-D0100	One relay output, display screen
	TSP-O3-D0110	One relay output, Modbus RS485 with display screen
	TSP-O3-D1010	One analog output, Modbus RS485 with display screen
	TSP-O3-D1100	One analog output, one relay output, Modbus RS485 with display screen..
	TSP-O3-B1010	One analog output, Modbus RS485. No display screen.

- 1、Above model with suffix –RH: Humidity detection.
- 2、Above model with suffix can choose measuring range:
 - 005 means 0~500ppb
 - 010 means 0~1000ppb (default)
 - 050 means 0~5000ppb
 - 100 means 0~10000ppb

Wiring Diagrams



Mounting



Wall space mounting with the bracket



Tongdy Sensing Technology Corporation

www.tongdy.com

Beijing, China

info@tongdy.com