

# Ozone Detector/ Controller DATASHEET

Model: F2000TSM-O3 Series

Indoor Ozone Indicator/ Controller

- Real time detect and indicate indoor ozone level
- Featured 6 LED indicator lights indicates different O3 levels
- Five years lifetime
- Provide 1x dry contact output to control a fan or an O3 generator
- Provide RS485 communication interface to be connected with a PC or DDC/PLC
- The highest performance with the lowest price

F2000TSM-O3 is used to indicate environment ozone level. With its dry-contact of relay output, a fan or an O3 generator can be controlled turning-on/off when ambient O3 measurement reaches its pre-set point.

F2000TSM-O3 can provide RS-485 communication interface with independent address, it can be connected with a PC or another control system to make management and control intelligently.

## □ Features

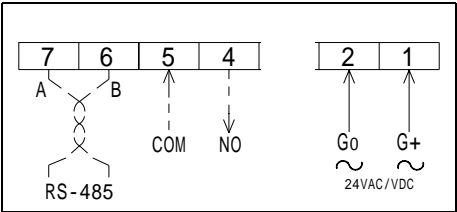
- ◆ Wall mounting, real time detect O3 with measuring range as 10~1000ppb.
- ◆ With semiconductor ozone gas sensor inside. More than 5 years lifetime.
- ◆ Full time indicate O3 level, special design with 6 indicator lights to indicate different O3 levels.
- ◆ Six different ozone range corresponds with different lights indicating.
- ◆ The on/off output optional for control a fan or an O3 generator.
- ◆ Four setting ozone level ranges can be selectable to control the relay output via a set of jumpers.
- ◆ RS-485 communication interface optional with 15KV antistatic protection, independent address setting.

## □ Specifications

Gas detected	Ozone
Sensing element	Semiconductor ozone gas sensor
Power Supply	18~38VAC/VDC
Consumption	2.2 W
Warm up time	96 hours (first time) 1 hour(operational)
Signal Update	2s
O3 Measuring Range	10~1000ppb
Six indicator lights	The first green indicator light : O3 < 200ppb The first and the second green indicator lights : 200ppb≤O3 < 400ppb The first yellow indicator light : 400ppb≤O3 < 600ppb The first and the second yellow indicator lights : 600ppb≤O3 < 800ppb The first red indicator light : 800ppb≤O3 < 1,000ppb The first and the second indicator lights : O3 ≥1,000ppb
Relay output	One dry contact output, rated switching current 2A(resistance load). Provide four O3 ranges to be selected to control the relay turn-on/turn-off
Communication rate	RS485, 9600/14400/19200(default), 28800 bps, 38400 bps (programmable selection), 15KV antistatic protection, 3 independent base address, 31 max network nodes
Operation temperature	0 ~ 50 (32 ~ 122 )
Operation humidity	0 ~ 95%RH , non condensing
Storage conditions	-40 ~ 70 (-40 ~ 158 )
Weight	190g
Dimensions	100mm×80mm×28mm

Installation standard	65mm×65mm or 2"×4" wire box
Wiring terminals (max.)	6
Housing/ IP rate	PC/ABS plastic fireproof material, IP30
Quality System	ISO 9001

Wiring Diagram



F2000TSM-O3-L100/L100C/L101/L101C

Models

ITEM	MODEL	DESCRIPTION
Ozone Indicator/ Controller	F2000TSM-O3-L100	Ozone indicator with 6 LED indicator lights
	F2000TSM-O3-L100C	Ozone indicator with 6 LED indicator lights RS485 communication interface
	F2000TSM-O3-L101	Ozone indicator with 6 LED indicator lights One dry contact output
	F2000TSM-O3-L101C	Ozone indicator with 6 LED indicator lights One dry contact output, RS485 communication interface

Shipping Information

Indiv. Ctn. Dim	115mm×95mm×45mm
Master Ctn. Qty	80
Master Ctn. Dim	44cm(L)×32cm(W)×32cm(H)
Master Ctn. Wt.	16KG

Mounting

