

# Ozone Detector/ Controller DATASHEET

Model: F2077TSM-O3 Series

Indoor Ozone Indicator/ Controller

Indoor Air Quality  
Beltéri Levegőminőség Kft.

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

F2077TSM-O3 is used to indicate 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.

F2077TSM-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.

## ① Features

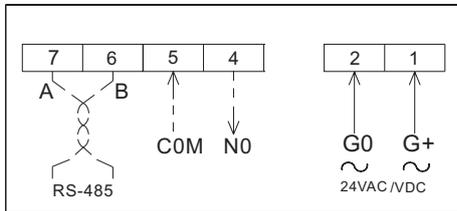
- ① Wall mounting, real time detect O3 with measuring range as 10~1000ppb.
- ① With Japanese famous semiconductor O3 gas sensor inside. More than 5 years lifetime.
- ① Full time indicate O3 level, special design with 6 indicator lights to indicate different O3 levels.
- ① Six different ozone range corresponds with different lights indicating.
- ① The on/off output optional for control a fan or an O3 generator.
- ① Four setting ozone value ranges can be selectable to control the relay output via a set of jumpers.
- ① RS-485 communication interface optional with 15KV antistatic protection, independent address setting.

## ① 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). The four O3 ranges which to be used to control the relay turn-on/turn-off selectable
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°C (32~ 122°F)
Operation humidity	0~ 95%RH, non condensing
Storage conditions	-40~ 70°C (-40~ 158°F)
Weight	190g
Dimensions	100mm×80mm×28mm

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

### Wiring Diagram



F2077TSM-O3-L100/L100C/L101/L101C

### Models

ITEM	MODEL	DESCRIPTION
Ozone Indicator/ Controller	F2077TSM-O3-L100	Ozone indicator with 6 LED indicator lights
	F2077TSM-O3-L100C	Ozone indicator with 6 LED indicator lights RS485 communication interface
	F2077TSM-O3-L101	Ozone indicator with 6 LED indicator lights One dry contact output
	F2077TSM-O3-L101C	Ozone indicator with 6 LED indicator lights One dry contact output, RS485 communication interface

### Mounting

