VOC Detector with Relay Model TON-0012 User Manual



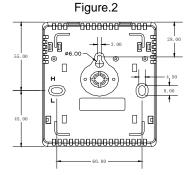
Specifications

Combustion gas and odorous gases within the room (smoke, body odor, timber dope and toluene emitted by other building materials), low concentration odorous gases (ammonia, H2S, CO, alcohol and natural gas) Sensing element Semiconductor gas sensor from Figero, Japan Measuring range 1–30ppm Power Supply 24VAC/VDC Consumption 2.5 W Load (for analog output) >5K Sensor query frequency Every 1s Warm up time 48 hours (first time), 10 minutes (operational) 1st green light on when VOC measurement ≤5ppm 1st and 2nd green lights on when 5ppm < VOC measurement ≤15ppm 1st and 2nd yellow lights on when 15ppm < VOC measurement ≤25ppm 1st and 2nd yellow lights on when 15ppm < VOC measurement ≤25ppm 1st and 2nd yellow lights on when VOC measurement ≥25ppm 1st and 2nd yellow lights on when VOC measurement ≥25ppm 1st and 2nd red lights on when VOC measurement ≥25ppm 1st and 2nd yellow lights on when VOC measurement ≥25ppm RS485 with 19200bps (default), 15KV antistatic protection, independent base address Output resolution Relay output One dry contact output, rated switching current 2A, resistance load (Only for L101) The IAQ level selectable to control the relay action during four IAQ levels. Operation 0~50°C (32~122°F) / 0~95%RH, non condensing Storage conditions 190g /100mm × 80mm × 28mm Installation standard 65mm × 65mm or 2" × 4" wire box Housing PC/ABS fireproof material /IP30 protection class Version	_						
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$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Output resolution	10Bit					
$\begin{array}{lll} \text{Operation} & 0{\sim}50^{\circ}\text{C} \; (32{\sim}122^{\circ}\text{F}) / 0{\sim}95\%\text{RH, non condensing} \\ \text{Storage conditions} & 0{\sim}50 \; (32{\sim}122 \;) / 5{\sim}90\%\text{RH} \\ \text{Net weight / Dimensions} & 190g / 100\text{mm} \times 80\text{mm} \times 28\text{mm} \\ \text{Installation standard} & 65\text{mm} \times 65\text{mm or } 2"\times 4" \; \text{wire box} \\ \text{Housing} & \text{PC/ABS fireproof material /IP30 protection class} \\ \end{array}$	Relay output	One dry contact output, rated switching current 2A, resistance load					
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Installation standard 65mm or 2"×4" wire box Housing PC/ABS fireproof material /IP30 protection class	Storage conditions	0~50 (32~122)/5~90%RH					
Housing PC/ABS fireproof material /IP30 protection class	Net weight / Dimensions	190g /100mm×80mm×28mm					
	Installation standard 65mm×65mm or 2"×4" wire box						
Version V.F026	Housing	PC/ABS fireproof material /IP30 protection class					
	Version	V.F026					

Important Information

- Always cut off power before mounting, removing, and cleaning the indicator.
- ◆ Notice the supply power voltage of the indicator is 24VAC/VDC





Mounting and Wire Connection

- ◆ Follows the step 1 to step 4 in Figure 1 to remove the cover. First, prepare a flat head screwdriver and cut off the power. Put the screwdriver deep inside of the hole on the top of the indicator. Then slant the screwdriver and open the cover gently following steps from step 2 to step 4.
- Mount the indicator on the place where you want to detect VOC level. Do not mount it near diffuser or any steam source, in direct sunlight.
- ♦ Mount the wall plate first, there are two dimensions available (see figure 2). Place the indicator against the wall at desired location; make sure wires can be passed through the notch on the wall plate.
- ◆ Connect wires to terminal strips, (see the label on the wall plate and fig.3) Make sure wiring connection correct and secure.
- ◆ Follows steps in figure 4 to close the cover.



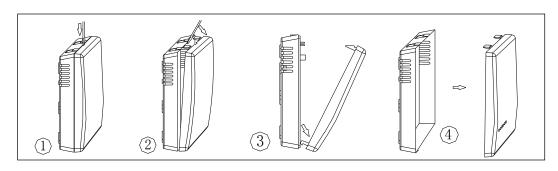


Figure.4 Close Cover

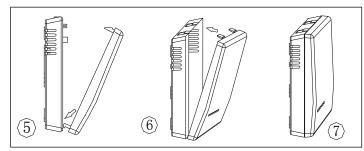
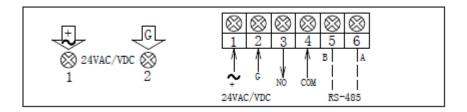


Figure.3 Wiring



Cor	nnection Terminal	Function	Electrical Data			
1	G+	Power (+)	24VAC/24VDC +			
2	G0	Power ground (-)	24VAC/24VDC			
3	Controlled device	Delevieuteut				
4	Common	Relay output	<245VAC 2A switching current (resistance load)			
5	B (RX-)	DC405	Modbus protocol, 19200bps, 15KV antistatic protection.			
6	A (TX+)	RS485				

Setting VOC level to control the relay action

Open the indicator's cover, there are 2 jumpers J1 and J2 on the top of the PCB board. Now you can adjust IAQ setting level via the two jumpers as below table to control the relay action.

OFF means disconnection, ON means connection.

Jumper setup		IAQ setting level	Relay on /off
J1=OFF	J2=OFF	5ppm	The relay turns on when VOC>5.5ppm and turns off when VOC<4.5ppm
J1=OFF	J2=ON	10ppm	The relay turns on when VOC>10.5ppm and turns off when VOC<9.5ppm
J1=ON	J2=OFF	15ppm	The relay turns on when VOC>15.5ppm and turns off when VOC<14.5ppm
J1=ON	J2=ON	20ppm(Default)	The relay turns on when VOC>20.5ppm and turns off when VOC<19.5ppm

Modbus Parameters

Mode: RTU (MSB First)

Baud Rate: 1-4800 2-9600 3-14400 4-19200 5-38400 bps default: 4-19200bps

Start Bits: 1

Data Bits: 8

Stop Bits: 1 / 2 default:1

Parity: None / Odd / Even default: None

MODBUS POLL-F2000TSM-VOC-L101C Register Map

Support Function: 2 3 4 6 16

Starting	Data	Functi	Read/Wr	Lengt	Format	Valid Response	Defau
Register	Description	on	ite	h			lt
Decimal							
0	VOC Measurement(Floa t)	4	R	2	Float big-end		
2	Temperature Measurement	4	R	2	Float big-end		
4	Humidity Measurement	4	R	2	Float big-end		
6	VOC Measurement(INT 16)x10	4	R	1	INT16		
7	Temperature Measurement(INT 16)x10	4	R	1	INT16		
8	Humidity Measurement (INT16)	4	R	1	INT16		
0	Modbus Address	3/6	R/W	1	UINT16	1~255	1
1	Modbus Baud Rate	3/6	R/W	1	UINT16	1-4800bps 2-9600bps 3-14400bps 4-19200bps	4

						5-38400bps	
2	Modbus Parity Bit and Stop Bit	3/6	R/W	1	UINT16	1-None 1Stop Bit; 2-None 2Stop Bit; 3-Odd 1Stop Bit; 4-Even 1Stop Bit	2
6	Humidity Calibrate Object	3/6	R/W	1	UINT16	5~99	50
10	Temperature Calibrate	3/16	R/W	2	Float big-end	-3.0~3.0	0.0
38	Voc Current Calibrate Object	3/16	R/W	2	Float big-end	0.1~30.0	15.0
0	0~10v/4~20mA	2	R	1	UINT16		0
1	Relay Setpoint Choice 1	2	R	1	UINT16		0
2	Relay Setpoint Choice 2	2	R	1	UINT16		1
0	Relay	1	R	1	UINT16	0-OFF 1-ON	

Note: Scan Rate>=4000ms