

Wireless Indoor Air Quality Monitor

IAQ-700



Best Detectors, Best Service



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[Introduction]

IAQ-700 is a high accuracy indoor air quality monitor, which measure VOC. CO2, Temperature, Humidity and dust.

Through large size of graphic LCD, it provides real-time monitoring and can transmit data wirelessly through built in ZigBee.

After install indoor Watch (software), it enable to collect data at a long distance.

Relay Contact make it possible to interwork with a ventilating system.

It has been installed to measure Air quality of indoor or underground spaces like Factories, schools, Public places etc.

[Features]

◆ Multi Gas Measurement

Measurement of VOC, CO2, Dust, Temperature and humidity at the same time.

◆ ZigBee wireless communication

Can reach max 1.2Km in case of non-obstacle.

◆ Real time storage of data

'Indoor Watch' program enable to transmit data in real time at a long distance

◆ Digital Process

Through Digital process Based on micro-process, it makes possible more convenient, accurate and efficient measurement.

◆ LCD Display with Back-Light

LCD offers real-time display of detection density and back light offers easy reading even in dark area

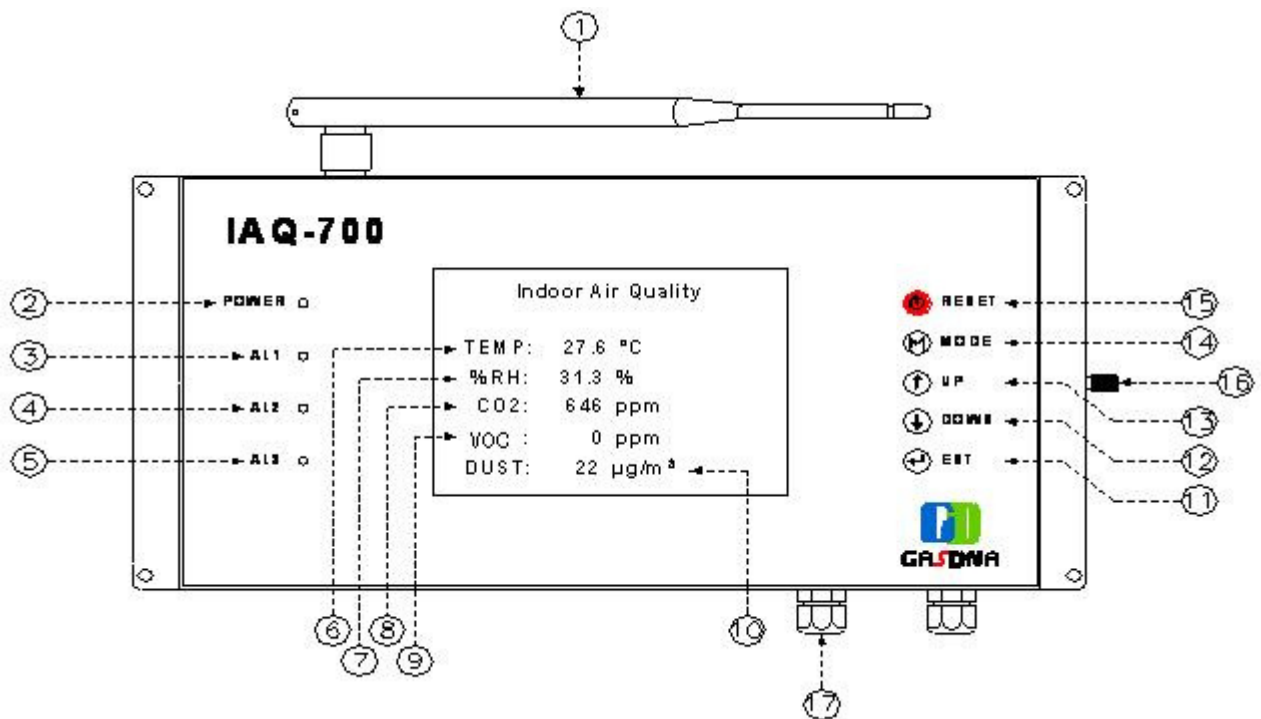
◆ Relay Signal-Output

Provide 2 Step-Relay Contact and interwork with a ventilating system

[Specification]

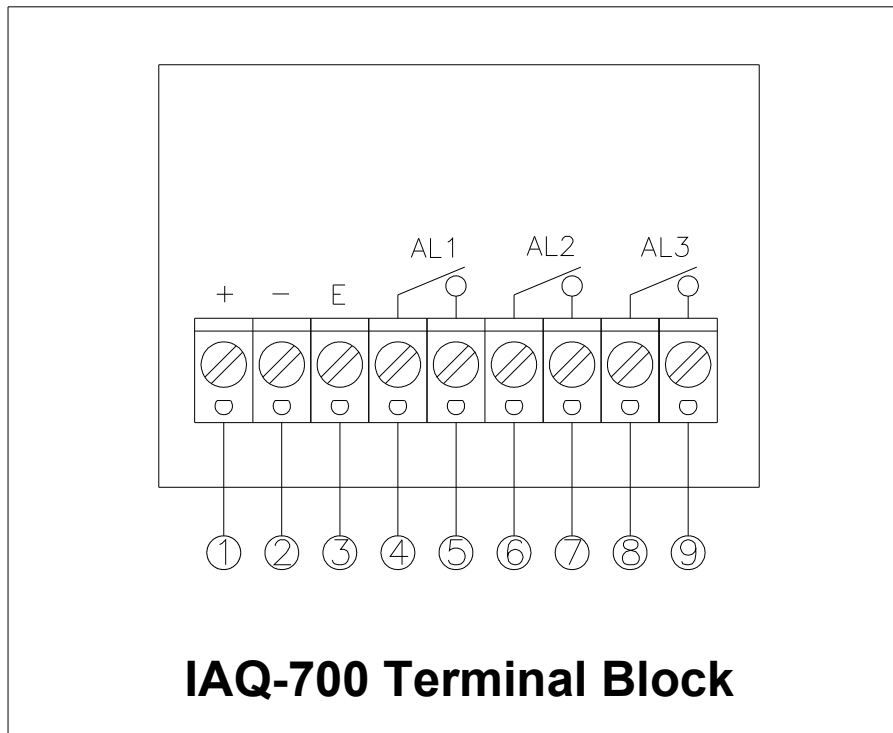
Segment		Specification
VOC	Detection principle	Semiconductor or PID
	Measurement range	0 ~ 1000 ppm
	Resolution	1 ppm
	Accuracy	≤ ±3%/Full Scale
	Response time	Within 10 sec (T90)
CO2	Detection principle	NDIR
	Measurement range	400 ~ 10,000 ppm
	Resolution	10 ppm
	Accuracy	≤ ±5%/Full Scale
	Response time	Within 30 sec (T90)
DUST	Detection principle	Light Scattering
	Measurement range	0 ~ 500 $\mu\text{g}/\text{m}^3$
	Resolution	1 $\mu\text{g}/\text{m}^3$
	Accuracy	≤ ±3%/Full Scale
	Response time	Within 10 sec (T90)
Temperature	Detection principle	Thermister
	Measurement range	-25 ~ 60 $^{\circ}\text{C}$
	Resolution	0.2 $^{\circ}\text{C}$
	Accuracy	≤ ±2%/Full Scale
	Response time	Within 10 sec (T90)
Humidity	Detection principle	Thin Film electronic capacity
	Measurement range	0 ~ 100%RH
	Resolution	0.4% RH
	Accuracy	≤ ±3%/Full Scale
	Response time	Within 15 sec (T90)
Communication		ZigBee
Input power		DC9V ~ DC24V
Density Display		320×240 DOT Graphic LCD Display
Alarm Display		AL-1,AL-2 LED(RED)
Alarm Output		2단 RELAY CONTACT
Operation Temperature		-10 $^{\circ}\text{C}$ ~ 70 $^{\circ}\text{C}$
Operation Humidity		5 ~ 95%RH (Non-Condensing)
Installation		Wall Mounting Type

[Parts and Function]



	Part Name	Function
1	Antenna	Dipole Antenna
2	POWER	Power LED
3	AL1	Alarm warning 1 LED
4	AL2	Alarm warning 2 LED
5	AL3	Alarm warning 3 LED
6	TEMP	Measurement Temperature value
7	%RH	Measurement Humidity value
8	CO2	Measurement CO2 value
9	VOC	Measurement VOC value
10	DUST	Measurement dust value
11	ENT	ENT KEY Button
12	DOWN	DOWN KEY Button
13	UP	UP KEY Button
14	MODE	MODE KEY Button
15	RESET	Reset Button
16	COVER BOLT	Front cover open bolt
17	CABLE GRAND	cable

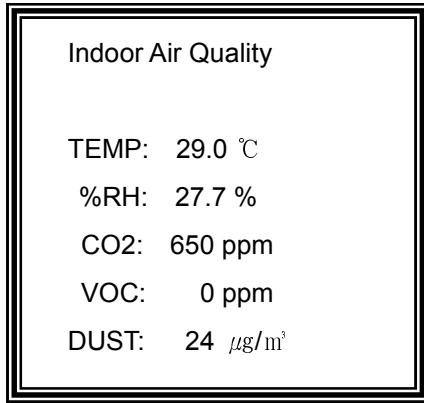
[Terminal]



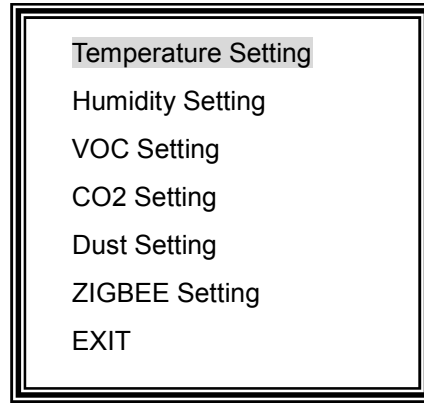
No.	Print Name	Usage
1	+	Power 24VDC(+)
2	-	Power 0V(-)
3	E	Earth Terminal
4	AL1	ALARM1 RELAY CONTACT
5		
6	AL2	ALARM2 RELAY CONTACT
7		
8	AL3	ALARM3 RELAY CONTACT
9		

[Menu Setting]

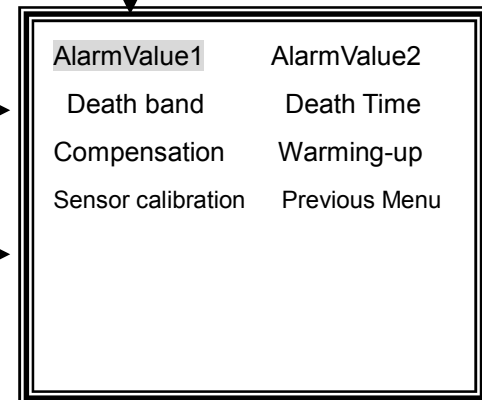
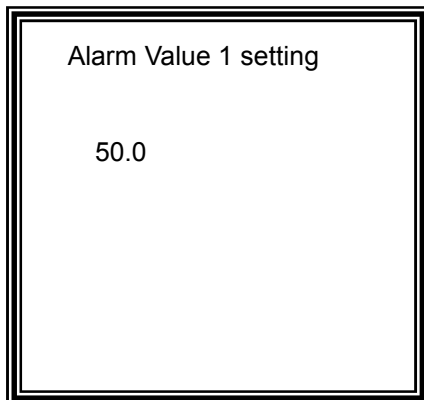
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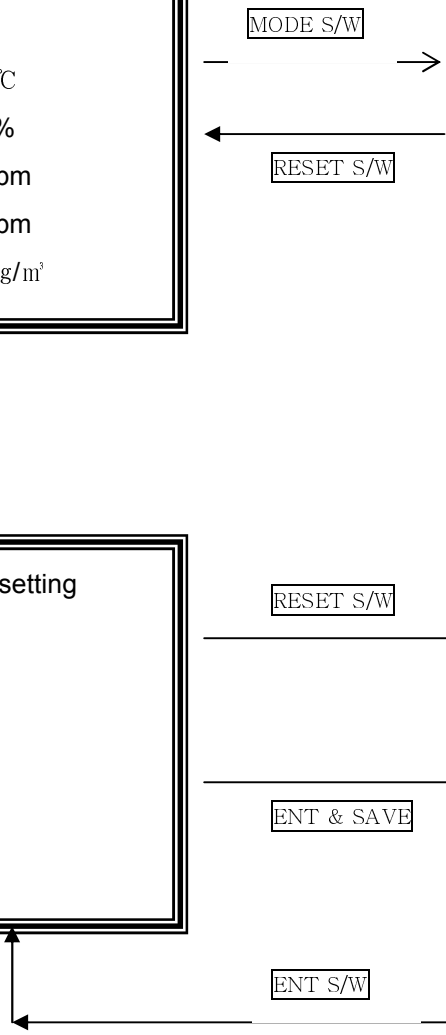


SubMenu 1



SubMenu2

SubMenu3



[Sub Menu 1]

NO	Menu	Description
1	Temperature Setting	Select 'Temperature Setting' Menu
2	Humidity Setting	Select 'Humidity Setting' Menu
3	VOC Setting	Select 'VOC Setting' Menu
4	CO2 Setting	Select 'CO2 Setting' Menu
5	Dust Setting	Select 'Dust Setting' Menu
6	ZIGBEE Setting	Select 'Dust Setting' Menu
7	EXIT	Select 'ZIGBEE Setting'

Select one menu among Temperature, Humidity, VOC, CO2, Dust, ZIGBEE Setting .

[Sub Menu 2]

Menu	Description
Alarm Value1	Alarm 1 value
Alarm Value 2	Alarm 2 value
Death Band	ALARM DEAD DAND Menu
Death Time	ALARM DEAD TIME Men
Compensation	Error compensation of measurement value
Warming Up	Initialization when power supplied (0~99 sec)
Sensor Calibration	Sensor Calibration (ZERO,SPAN calibration)
Coordinator Address	Data transmission address
LONG ADR Reading	ZIGBEE Address

[Dimension]

