# **CO<sub>2</sub> DETECTOR/INDICATOR**

## P/NF2000IAQ-CO<sub>2</sub>-3100/3101/5100/5101 CE Approval **CE**

F2000IAQ-CO<sub>2</sub> detector/Indicator is used to monitor and alarm CO<sub>2</sub> level and room temperature. Relative humidity detection and display can be as an option. Other options can be provided to users: RS485 communication interface with independent address; one dry contact output to control a ventilation device.

Especial design for schools, kindergartens, office buildings, conference rooms, rest rooms as well as other public places

- Built-in NDIR CO<sub>2</sub> module, 15 years long life.
- ABC\_Logic self calibration algorithm for CO<sub>2</sub> sensor.
- Real-time detect and display room CO<sub>2</sub> and temperature
- 3 LED indicator lights following three different CO<sub>2</sub> ranges to indicate ambiance ventilation situation: Optimal Ventilation; Poor Ventilation and Insufficient Ventilation.
- Optional humidity detection and display

#### Features

- Real-time detecting and display CO<sub>2</sub> level during 0ppm to 20,000ppm CO<sub>2</sub> range; Also detecting room temperature from 5 to 45
- Optional real-time humidity from 5%RH to 95%RH
- NDIR CO<sub>2</sub> sensor technology of infrared self diffusion, 15 years lifetime
- Self Calibration Algorithm makes it in using without calibration amending

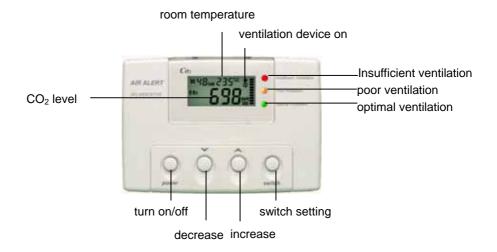
- The three measured CO<sub>2</sub> ranges for 3-LED indicator lights selectable by end users
- LED's brightness adjustment
- Optional 1X dry contact output to control a ventilation device
- Easy preset CO<sub>2</sub> level for buzzer alert (optional)
- Optional RS485 interface to connect to a PC or another system (optional)

#### □ Specifications

Gas detected	Carbon Dioxide (CO <sub>2</sub> )
Sensing element	Non-Depressive Infrared Detector (NDIR)
Temperature sensor	NTC
Temperature correction	Self compensation
CO <sub>2</sub> NDIR life	15 years
Consumption	3.5W/ Max, 2.5W/ Average
Accuracy@25 (77 )	±40ppm + 3% of reading
Stability	<2% of FS over life of sensor (15 yr typical)
Calibration interval	ABC Logic Self Calibration Algorithm
CO <sub>2</sub> measuring range	0 ~ 2000ppm, which is default value 0 ~ (1,000~20,000)ppm, programmable selection
CO2 setting & Display resolution	1ppm
Temperature measuring range	0~50 (32~122 )

Temperature setting range	5~45 (41~113)
Option: 1X dry contact output	Rated currency for contact point: 3A 220VAC/30VDC, resistance load
Option: RS485 communication interface	9600/14400/19200(default)/28800/38400bps rates selectable by program,15KV protection for static, independent address setting
Operation condition	0 ~ 50 (32 ~ 122 ), 0 ~ 95%RH without condensing
Power supply	220VAC/110VAC or 24VAC 50/60HZ±10%
Weight	380g
Dimensions	130mm×90mm×40mm
Connections Interface	Locate in interface of connection
Installment standard	65mm×65mm or 2"×4" wire box
Wiring standard	Wire section area<1.5mm <sup>2</sup>
Approval Standard	CE-Approval
Programming and selection	DIP switches inside and external push-buttons

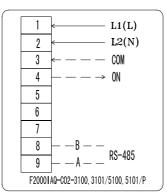
## Buttons and LCD



# Shipping Information

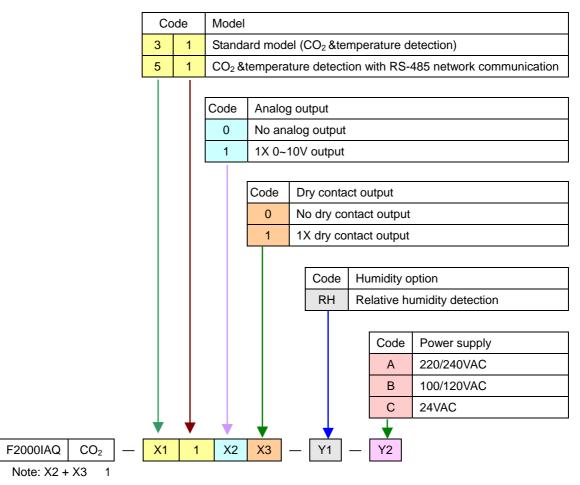
India. Ctn. Dim	135mm×95mm×55mm
Master Ctn. Qty	40
Master Ctn. Dim	44cm(L)×32cm(W)×32cm(H)
Master Ctn. Wt.	15 KG

## Wiring Diagram



### Model Guide

Gas Type	
CO <sub>2</sub>	Carbon Dioxide



Example: F2000IAQ-CO<sub>2</sub>-3100 indicates that it is a CO<sub>2</sub> indicator with temperature detection.