Carbon Dioxide Detector/Controller for Fan Switch

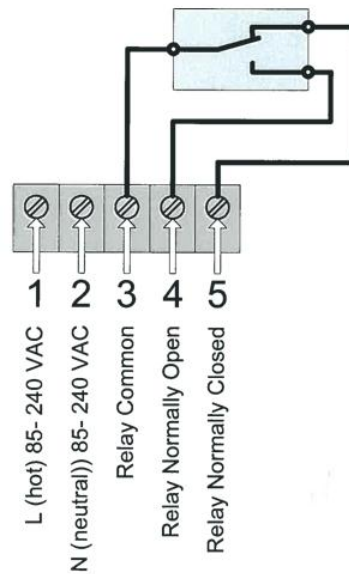Model #: F2000TSM-CO2-8013
CE Approval

■ Features

- ◆ Real-time detecting CO2 level with wall-mounting type
- ◆ NDIR infrared CO2 module inside with four CO2 detection range selectable.
- ◆ CO2 sensor has Self-Calibration Algorithm and up to 15 years lifetime
- ◆ Six indicator lights indicate six CO_2 range
- ◆ An SPDT relay output with max. 8A to control a 3-wire fan.　Two CO2 setpoints selectable for the relay

- switch by a jumper
- ◆ A touch button for operation
- ◆ Design for control a ventilator in houses, offices, or other indoor areas
- ◆ Wide power range:100~240VAC power supply
- ◆ CE-Approval

■ Specifications

Power supply	100~240VAC
Consumption	1.8 W Max / 230VAC
CO2 sensor	Non-Dispersive Infrared Detector (NDIR) ABC Logic Self Calibration
CO_2 measuring range	0～2,000ppm
Accuracy@25℃(77℉), 2000ppm	±40ppm +3% reading
Stability	<2% of FS over life of sensor
Response time	<2 minutes for 90% step change
Warm up time for turning-on	48 hours (first time), 2 minutes (operation)
6 LED lights From left to right: Blue Blue Green Orange Red Red	1st blue light on as CO2 measurement≤600ppm 1st and 2nd blue lights on when 600ppm<CO2 measurement<800ppm Green light on when 800ppm<CO2 measurement<1,000ppm Orange light on when 1,000ppm<CO2 measurement<1,500ppm 1st red light on when 1,500ppm＜CO2 measurement<2,000ppm 1st and 2nd red lights on as CO2 measurement＞2,000ppm
Relay control	Max. switch current: 8A (load resistance) SPDT relay Two CO2 levels selectable to control the relay by jumpers
Two CO2 level selectable	1000ppm/1500ppm The differential is 300ppm
The shortest protection time for fan turning on/off	10 minutes
Operation conditions	0~50℃(32~122℉); 0~95%RH, non condensing

iSweek www.isweek.com
Add: 16/F, Bldg. #3, Zhongke Mansion, No.1 Hi-Tech S. Rd, Hi-Tech Park South, Shenzhen, Guangdong, 518067 P.R.China
Tel: + 86-755-83289036   Fax: + 86-755-83289052   E-mail: sales@isweek.com

Storage conditions	0~50℃(32~122℉) 0~80%RH, non condensing
Dimensions/Net weight	100mm×80mm×24mm (H X W X D) /180g
Installment standard	65mm×65mm (2"×4") wire box
Approval	CE

□ **Wiring Diagram**

1. L (hot) 85- 240 VAC
2. N (neutral)) 85- 240 VAC
3. Relay Common
4. Relay Normally Open
5. Relay Normally Closed

□ **Mounting**