

**ST-501**



**Features**

- 3 Independent CO<sub>2</sub>, humidity and temperature sensors
- Easy-to-use PC software for parameter settings and data analysis
- User operated CO<sub>2</sub> calibration
- Fast USB download: 50,000 records in less than 10 seconds
- Internal backup battery to maintain date / time setting
- Power management IC to increase better efficiency
- Internal CO<sub>2</sub> alarm buzzer

**Applications**

- Building HVAC monitoring
- Indoor air quality survey

**Specifications**

- CO<sub>2</sub> Sensing Method: NDIR (Non-Dispersive Infrared)
- Measures: Carbon dioxide in PPM, temperature (°F or °C), %Relative Humidity
- CO<sub>2</sub> Measurement range: 0~9999 ppm
- Display resolution: ±1ppm
- Datalogging: 50,000 records

**General**

Operation condition	32°F-122°F (0°C-50°C)
	0-95%,RH,non-condensing
Storage temperature	-4°F to 140°F (-20°C to 60°C)

**Power Supply**

Battery	4 AA batteries
Battery operation	24 hours
External power supply	5V~6V VDC with 0.5A

**Relative Humidity Sensor**

Type	CMOS Sensor	
Measurement range	1%-99%	
Accuracy	±3.0%RH (20%~80%)	±5.0%RH (<20%,>80%)
Resolution	0.1%	
Response time	8 seconds	

**CO<sub>2</sub> Sensor**

Type	Non-dispersive infrared (NDIR)
Measurement range	0 to 9999ppm
Accuracy	±75ppm or ±8% of reading
Resolution	±1ppm
Response time	2 seconds

**Temperature**

Type	Thermistor
Measurement range	0°C~50°C
Accuracy	1°C from 0°C~50°C
Resolution	0.1°C
Response time	1 second