

# ST-501 Indoor Air Quality Monitor



- 3 Independent CO2, humidity and temperature sensors.
- User operated CO2 calibration.
- USB datalogg: 50,000 records.
- Internal backup battery to maintain date/time setting.
- Power management IC to increase batter efficiency.
- Easy- to-Use PC software for parameter settings and data analysis.
- Internal CO2 alarm buzzer.

- CO2 Sensing Method: NDIR (Non-Dispersive Infrared)
- Measures: Carbon dioxide in PPM, temperature (F or C), % Relative Humidity
- CO2 Measurement range: 0~9999 ppm (2001~9999 ppm over range)
- CO2 Accuracy:  $\pm 60\text{ppm}$ ,  $\pm 5\%$  of reading (0~2000 ppm)
- Display Resolution -  $\pm 1$  ppm
- Datalogging: 17,000 records,
- Fast USB download (50,000 records in less than 10 seconds.)

CO <sub>2</sub> Sensor	
Type	Non-dispersive infra-red (NDIR)
Measurement Range	0~9999 ppm (2001~9999 ppm over range)
Accuracy	$\pm 60\text{ppm}$ , $\pm 5\%$ of reading (0~2000 ppm)
Resolution	$\pm 1$ ppm
Response Time	2 seconds

Relative Humidity Sensor		Temperature Sensor:	
Type	CMOSens	Type	Thermistor
Measurement Range	1% ~99%	Measurement Range	0 to 50C
Accuracy	$\pm 3.0\%RH(20\sim 80\%)$ $\pm 5.0\%RH(<20\% >80\%)$	Accuracy	$\pm 0.5C$ from 0-50C
Resolution	0.1%	Resolution	0.1C
Response Time	8 Seconds	Response Time	1 seconds

Power Supply	
Battery	Four AAalkaline batteries x4
Battery Operation	about 24 hours
External Power Supply	6V VDC with 0.5A