

# ACR-205

## Product Specifications

**Type:** Five-Channel Temperature, RH, CO<sub>2</sub> and other gases

### GENERAL SPECIFICATIONS

<b>Size:</b>	214 mm x 152 mm x 55 mm (8.44" x 6.0" x 2.18")
<b>Weight:</b>	1.32 kg (2.91 lb)
<b>Case Material:</b>	Powder painted aluminum
<b>Battery (in logger):</b>	3.6 volt Lithium
<b>Battery (in monitor):</b>	Integral sealed lead acid battery
<b>Resolution:</b>	12-bit (1 part in 4096)
<b>Mounting:</b>	Desk or wall mount
<b>Clock Accuracy:</b>	+/- 2 seconds per day
<b>Sampling Methods:</b>	Continuous (First-in First-out), Stop When Full
<b>Operating Limits:</b>	0 to 50°C (32 to 122°F) and 0 to 100% relative humidity (non-condensing)
<b>PC Requirements:</b>	IBM PC or 100% compatible with at least one free serial port, 2MB of RAM memory, and 2 MB of hard disk space
<b>Software Requirements:</b>	TrendReader® Standard 2 (compatible with Windows® 2000 and XP)

<b>Memory</b>	128KB (capable of storing up to 87,000 readings)
<b>Size:Sampling Rates:</b>	User selectable rates from 8 seconds to 8 hours
<b>Number of Channels:</b>	Five channels:
	ACR-205: Temperature, RH, CO <sub>2</sub> , and 2 spare channels for other gases
	ACR-205-4: Temperature, RH, CO <sub>2</sub> , CO, and 1 spare channel for another gas
	ACR-205-5: Temperature, RH, CO <sub>2</sub> , CO and NO <sub>2</sub>

### SENSOR SPECIFICATIONS

<b>Internal Temperature Sensor:</b>	NTC Thermistor 0 to 50°C (32 to 122°F) +/- 0.5°C
Range:	0.5°C
Accuracy: <b>Internal RH</b>	Thin film capacitive
<b>Sensor:</b>	0 to 100%
Range:	+/- 2% RH
Accuracy: <b>CO<sub>2</sub> Sensor:</b>	NDIR
Range:	0 to 5,000 ppm (standard)
Accuracy: <b>CO Sensor:</b>	+/- 20 ppm (typical)
Range:	Electrochemical
Accuracy:	0 to 50 ppm < 2% per month in clean air
<b>NO<sub>2</sub> Sensor:</b>	Electrochemical
Range:	0 to 5 ppm < 3% @ 3 months
Accuracy:	

For other gas sensors, see ACR-205 Sensor specs

With a built-in display and data logger, the ACR-205 provides the user with a reliable and accurate method of evaluating indoor air quality by measuring and recording temperature, relative humidity, carbon dioxide, and one or two other gases at the same time. These other gases can include: carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), oxygen (O<sub>2</sub>), ammonia (NH<sub>3</sub>), chlorine (Cl<sub>2</sub>), chlorine dioxide (ClO<sub>2</sub>), fluorine (F<sub>2</sub>), hydrogen (H), hydrogen chloride (HCl), hydrogen cyanide (HCN), hydrogen sulphide (H<sub>2</sub>S), nitric oxide (NO), ozone (O<sub>3</sub>), or sulphur dioxide (SO<sub>2</sub>).



### WARRANTY

**Monitor: 2 Years**

### APPLICATIONS

Monitoring environmental air quality - in schools, government buildings, and new buildings, etc.

Model#:	Cat#:
ACR-205	01-0337
ACR-205-4	01-0332
ACR-205-5	01-0333

### Accessories:

Carrying case and interface cable (included)