

# IAQ Logger

## Product Specifications

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



### GENERAL SPECIFICATIONS

<b>Size:</b>	107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")
<b>Weight:</b>	110 grams (3.75 ounces)
<b>Case Material:</b>	Noryl® plastic
<b>Battery:</b>	3.6 volt Lithium, guaranteed for ten years
<b>Resolution:</b>	8-bit (1 part in 256)
<b>Mounting:</b>	Magnetic backing or lock eyelet
<b>Clock Accuracy:</b>	+/- 2 seconds per day
<b>Sampling Methods:</b>	Continuous (First-in, First-out), Stop When Full (Fill-then-stop)
<b>Operating Limits:</b>	-40 to 70°C (-40 to 158°F) and 0 to 95% relative humidity (non-condensing)
<b>PC Requirements:</b>	IBM PC or 100% compatible with at least one free serial port, 2 MB of RAM memory, and 2 MB of hard disk space
<b>Software Requirements:</b>	TrendReader® Standard 2 (compatible with Windows® 2000, and XP)

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<b>Memory Size:</b>	32KB (capable of storing 32,767 readings)
<b>Sampling Rates:</b>	User selectable rates from 8 seconds to 5 days in 4-second increments
<b>Number of Channels:</b>	Five (one for the internal temperature sensor, one for the CO <sub>2</sub> sensor, one for the external RH sensor, and the remaining two for optional remote EH-020A probe [temperature and RH])

### SENSOR SPECIFICATIONS

<b>Temperature Sensor:</b>	NTC Thermistor
Range:	-40 to 70°C (-40 to 158°F)
Accuracy:	+/- 0.2°C from 0 to 70°C; +/- 0.5°C from -40 to 0°C (+/-0.36°F from 32 to 158°F; +/-0.9°F from -40 to 32°F)
Resolution:	0.4°C (0.7°F) @ 25°C; better than 1°C (1.8°F) between -25 and 70°C (-13° and 158°F); better than 2.0°C (3.6°F) between -40 and -25°C (-40°F and -13°F)
<b>RH Sensor:</b>	Capacitive thin polymer film
Range:	0 to 95% RH
Accuracy:	+/- 4% RH from 10 to 90% (-20 to 40°C [-4 to 104°F])
Resolution:	Better than 0.4% between 25 and 60% RH at 25°C (77°F)
<b>CO<sub>2</sub> Sensor (in Telaire):</b>	
Range:	0 to 4,000 ppm voltage output 0 to 10,000 ppm display
Sensitivity:	+/- 1 ppm
Accuracy:	+/- 50 ppm or +/- 5% of reading (whichever is greater)
Repeatability:	+/- 20 ppm

The IAQ Logger, when combined with the Telaire 7001 Handheld CO<sub>2</sub> Monitor, records the three leading indicators of indoor air quality: (1) temperature, (2) relative humidity, and (3) carbon dioxide.

### WARRANTY

<b>Internal Battery:</b>	<b>10 Years</b>
<b>Data Logger:</b>	<b>3 Years</b>

### APPLICATIONS

Helps resolve sick building syndrome, building-related illnesses, and indoor air contaminants; tracks indoor air quality; HVAC system testing and balancing, etc.

<b>Model#:</b>	<b>Cat#:</b>
SR-IAQ (logger only)	01-0340
Telaire (CO <sub>2</sub> monitor)	35-0034
IAQ-101 System	01-0338
IAQ-102 System	01-0328