

# IAQ Logger

## Product Specifications

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

### GENERAL SPECIFICATIONS

**Size:** 107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")  
**Weight:** 110 grams (3.75 ounces)  
**Case Material:** Noryl® plastic  
**Battery:** 3.6 volt Lithium, guaranteed for ten years  
**Resolution:** 8-bit (1 part in 256)  
**Mounting:** Magnetic backing or lock eyelet  
**Clock Accuracy:** +/- 2 seconds per day  
**Sampling Methods:** Continuous (First-in, First-out), Stop When Full (Fill-then-stop)  
**Operating Limits:** -40 to 70°C (-40 to 158°F) and 0 to 95% relative humidity (non-condensing)  
**PC Requirements:** IBM PC or 100% compatible with at least one free serial port, 2 MB of RAM memory, and 2 MB of hard disk space  
**Software Requirements:** TrendReader® Standard (compatible with Windows® 3.1, 95, 98, Me, NT, 2000, and XP)

**Memory Size:** 32KB (capable of storing 32,767 readings)  
**Sampling Rates:** User selectable rates from 8 seconds to 5 days in 4-second increments  
**Number of Channels:** 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

**Temperature Sensor:** 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)  
**RH Sensor:** 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)  
**CO<sub>2</sub> Sensor (in Telaire):**  
**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

**Internal Battery:** 10 Years  
**Data Logger:** 3 Years

### 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      |