

Indoor Air Quality (IAQ) Logger

Five-Channel Temperature, Relative Humidity and CO₂ Data Logger

The IAQ Logger, when combined with the Telaire 7001 Handheld CO₂ Monitor, records the three leading indicators of indoor air quality: (1) temperature, (2) relative humidity, and (3) carbon dioxide.

APPLICATIONS

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

GENERAL SPECIFICATIONS

107mm x 74mm x 22mm (4.2" x 2.9" x 0.9") Size:

Weight: 110 q (3.75 oz) Noryl[®] Plastic Case Material:

Battery: 3.6 volt Lithium, 1 Amp-Hour Resolution: 12-bit (1 part in 4096)

Magnetic backing or locking eyelet Mounting:

± 2 seconds per day Clock Accuracy:

Sampling Methods: Continuous (First-in First-out)*, Stop When Full (Fill-then-stop) Operating Limits: -40°C to 70°C (-40°F to 158°F) and 0 to 95% RH (non-condensing)

PC Requirements: Windows PC with at least one free USB or serial port (depending on interface) TrendReader® 2 (Compatible with Windows XP, Vista, Windows 7 and Windows 8 Software Requirements:

[32 bit & 64 bit])

Memory Size: 32 KB (capable of storing up to 32,767 readings)

Sampling Rates: User selectable rates from 8 seconds to 5 days in 4-second increments

Five (one for the internal temperature sensor, one for the CO₂ sensor, one for Number of Channels:

the external RH sensor, and the remaining two for optional remote EH-020A

probe [temperature and RH])

SENSOR SPECIFICATIONS

Temperature Sensor

Type: **NTC Thermistor**

-40°C to 70°C (-40°F to 158°F) Range:

 ± 0.2 °C over the range of 0 to 70°C (± 0.36 °F over the range of 32 to 158°F) Accuracy:

 ± 0.5 °C over the range of -40°C to 0°C (± 0.9 °F over the range of -40°F to 32°F) 0.4° C (0.7° F) @ 25° C; better than 1° C (1.8° F) between -25° C and

Resolution:

70°C (-13°F and 158°F); better than 2°C (3.6°F) between -40°C and

-25°C (-40°F and -13°F)

Relative Humidity Sensor

Capactive thin polymer film Type:

Range: 0 to 95% RH

 $\pm 4\%$ RH from 10 to 90% RH (-20°C to 40°C [-4°F to 104°F]) Accuracy: Better than 0.04% RH between 25% and 60% RH @ 25°C (77°F) Resolution:

CO₂ Sensor (in Telaire)

Range: 0 to 4,000 ppm voltage output

0 to 10,000 ppm display

Sensitivity: ±1 ppm

±50 ppm or ±5% of reading (whichever is greater) Accuracy:

Repeatability: ±20 ppm

ORDERING INFORMATION

Item Cat#: **Item** Cat#: SR-IAQ (Logger Only) 01-0340 01-0338 IAQ-101 System* (Serial) Telaire (CO₂ Monitor) 35-0034 IAQ-102 System* (USB) 01-0328

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ISO 9001 Certified

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^{*}IAQ System includes: Telaire CO2 monitor (comes with North American 120V power supply); IAQ data logger (temperature, RH & CO2); Harness; TrendReader 2 Software; Serial or USB interface cable