



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

Size:	107mm x 74mm x 22mm (4.2" x 2.9" x 0.9")
Weight:	110 g (3.75 oz)
Case Material:	Noryl® Plastic
Battery:	3.6 volt Lithium, 1 Amp-Hour
Resolution:	12-bit (1 part in 4096)
Mounting:	Magnetic backing or locking eyelet
Clock Accuracy:	± 2 seconds per day
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)
Software Requirements:	TrendReader® 2 (Compatible with Windows 2000 SP4, XP SP1 and Vista 32 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
Number of Channels:	Five (one for the internal temperature sensor, one for the CO ₂ sensor, one for the external RH sensor, and the remaining two for optional remote EH-020A probe [temperature and RH])



SENSOR SPECIFICATIONS

Temperature Sensor

Type:	NTC Thermistor
Range:	-40°C to 70°C (-40°F to 158°F)
Accuracy:	±0.2°C over the range of 0 to 70°C (±0.36°F over the range of 32 to 158°F) ±0.5°C over the range of -40°C to 0°C (±0.9°F over the range of -40°F to 32°F)
Resolution:	0.4°C (0.7°F) @ 25°C; better than 1°C (1.8°F) between -25°C and 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

Type:	Capactive thin polymer film
Range:	0 to 95% RH
Accuracy:	±4% RH from 10 to 90% RH (-20°C to 40°C [-4°F to 104°F])
Resolution:	Better than 0.04% RH between 25% and 60% RH @ 25°C (77°F)

CO₂ 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