

KD AirBoxx Indoor Air Quality Monitor

KD Engineering is pleased to introduce our newest Indoor Air Quality (IAQ) monitor, the AirBoxx. It is the most comprehensive, affordable IAQ monitor on the market. The AirBoxx offers continuous monitoring of the basic IAQ parameters (CO, CO₂, Temp, and RH), along with additional channels for customization, including a PID option. It comes with sophisticated Windows-based software. It is easy to use, lightweight and priced right!

Features

KD Security - The KD AirBoxx is the only monitor on the market that offers two types of security. Software security is provided via a user-defined password, which must be entered to view data or change parameters. The hardware security is a standard laptop lock and cable. Combined, these security features allow you to leave the monitor for a period of time without worry of theft or interference in the testing process.



Data logging - With its 512K standard memory, the KD AirBoxx simultaneously records all parameters with a time and date stamp for up to 30 days with six sensors at one-minute intervals.

Location marking - Assigning locations is a simple, straightforward process using the alphanumeric keypad. Over 100 locations can be entered. You can filter graphs, tables, and statistical reports by one or more locations.

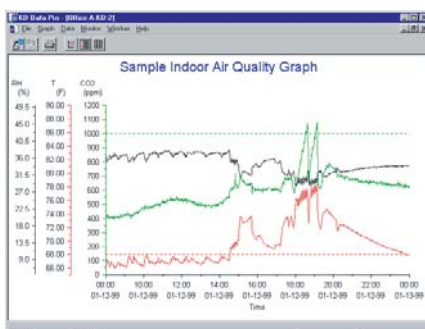
Flexible intervals - You can set logging intervals, ranging from 15 seconds to one hour.

Power - Four AA batteries and an A/C adapter are included.

Calibration - Calibration for the KD AirBoxx is a simple, menu driven process, using zero gas and span gas.

Warranty - The KD AirBoxx comes with a two-year warranty.

Price - With a price point well below its competitors, the KD AirBoxx is the most comprehensive, affordable IAQ monitor on the market today.



Range	From	To
Carbon Dioxide	08:00 01-12-99 (Location 2)	23:59 01-12-99 (Location 2)
Minimum	390 Parts per Million (08:01 01-12-99, Location 2)	
Maximum	1030 Parts per Million (19:10 01-12-99, Location 2)	
Average	620 Parts per Million	
Standard Deviation	120 Parts per Million	
Temperature	08:00 01-12-99 (Location 2)	
Minimum	65.94 Fahrenheit (08:20 01-12-99, Location 2)	
Maximum	75.25 Fahrenheit (19:05 01-12-99, Location 2)	
Average	69.87 Fahrenheit	
Standard Deviation	3.05 Fahrenheit	
Relative Humidity	08:00 01-12-99 (Location 2)	
Minimum	28.4 Percent (18:51 01-12-99, Location 2)	
Maximum	39.2 Percent (04:01 01-12-99, Location 2)	
Average	34.5 Percent	
Standard Deviation	2.4 Percent	

Location	Time	Carbon Dioxide (ppm)	Temperature (F)	Relative Humidity (%)
2	08:00 01-12-99	410	66.52	36.9
2	08:01 01-12-99	390	66.10	36.5
2	08:02 01-12-99	410	66.20	36.2
2	08:03 01-12-99	400	66.77	36.4
2	08:04 01-12-99	410	67.35	36.0
2	08:05 01-12-99	420	67.17	36.1
2	08:06 01-12-99	420	67.02	36.2
2	08:07 01-12-99	410	66.71	36.6
2	08:08 01-12-99	420	66.74	36.6
2	08:09 01-12-99	410	66.72	36.6
2	08:10 01-12-99	410	66.78	36.2
2	08:11 01-12-99	400	66.64	36.9
2	08:12 01-12-99	410	66.14	36.6
2	08:13 01-12-99	400	66.09	36.5
2	08:14 01-12-99	400	66.13	36.6
2	08:15 01-12-99	400	66.36	36.4
2	08:16 01-12-99	410	66.69	36.0
2	08:17 01-12-99	400	66.00	36.7

Software - Windows-based software is included with the KD AirBoxx. The software is intuitive and easy to use. It generates professional looking reports and graphs, and lets you easily download data into spreadsheet or word processing programs to customize the output.

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KD AirBoxx Specifications

CO₂ Sensor

Type: Referenced non-dispersive infra-red (NDIR)
Measuring Range: 0 to 10000 ppm
Accuracy: ±5% of reading or 60 ppm, whichever is greater
Resolution: 1 ppm
Response Time: <60 seconds to 90% of final value

CO Sensor

Type: Electrochemical
Measuring Range: 0 to 500 ppm
Accuracy: ±3% of reading or 2 ppm, whichever is greater
Resolution: 0.1 ppm
Response Time: <45 seconds to 90% of final value

Temperature Sensor

Type: CMOSens
Measuring Range: 32 to 122°F (0 to 50° C)
Accuracy: 0.5° C (1.0° F)
Resolution: 0.1° F (0.1°C)
Response Time: <30 secs to 90% value
Units: User-selectable (C° or F°)

Relative Humidity Sensor

Type: CMOSens
Measuring Range: 5 to 95 % RH
Accuracy at +25° C: Better than ±2% RH
Resolution: 0.1% RH
Response Time: <15 seconds to 90% of final value

Data Logger

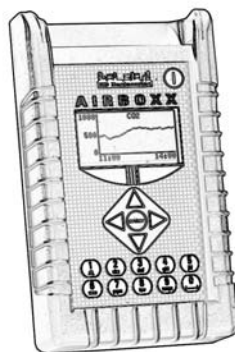
Capacity: 512KB (6 sensors at 1 min. int. = 30 days data)
A/D Resolution: 12 bit (temperature and RH 14 bit)
Logging Interval: 15 seconds to 1 hour (user-selectable)

Dimensions

Weight: 1 lb / 0.45 kg
Dimensions: 6.5" (16.5 cm) x 4" (10 cm) x 1.75" (4.5 cm)

Power

Battery: 4 AA rechargeable included (8 - 12 hour life)
Life: 8 - 12 hours
Charger: included
AC Adapter: included



Optional Sensor Specifications

Ozone

Type: Electrochemical
Measuring Range: 0 to 2 ppm
Accuracy: 0.04 ppm
Resolution: 0.01 ppm
Response Time: 150 seconds to 90% of final value

Hydrogen Sulfide

Type: Electrochemical
Measuring Range: 0 to 100 ppm
Accuracy: 0.25 ppm
Resolution: 0.01 ppm
Response Time: < 45 seconds to 90% of final value

Oxygen

Type: Electrochemical
Measuring Range: 0 to 30%
Accuracy: 0.5%
Resolution: 0.1%
Response Time: < 45 seconds to 90% of final value

Nitrogen Dioxide

Type: Electrochemical
Measuring Range: 0 to 20 ppm
Accuracy: 0.25 ppm
Resolution: 0.01 ppm
Response Time: < 45 seconds to 90% of final value

Sulfur Dioxide

Type: Electrochemical
Measuring Range: 0 to 20 ppm
Accuracy: 0.25 ppm
Resolution: 0.01 ppm
Response Time: < 45 seconds to 90% of final value

VOC

Type: PID (Photo Ionization detector)
Measuring Range: 0 to 20 ppm
Accuracy: 0.1 ppm
Resolution: 0.01 ppm
Response Time: < 20 seconds to 90% of final value

Analog Input

Type: Software configurable to interface with additional sensors (e.g., Particulate, TVOC, etc.)
Range: 0 to 4.095 V
Resolution: 12 bit