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Formaldehyde Monitor and Data Logger

AQM-101

AQM-101 shown smaller than actual size.

- Large LCD Displays HCHO Level, Temperature, Relative Humidity, Calendar (Y/M/D) and Time
- Three (3) Smiley Icons Indicate Indoor Air Quality Levels at (0/0.08/0.8 ppm)
- Stable Electrochemical Sensor for HCHO Detection
- Programmable High Alarm
- Manual 0 ppm Calibration
- Audible/Visible LED Warning for High HCHO Concentration

The AQM-101 is designed to measure HCHO concentration, air temperature and relative humidity with visible and audible alarms. This HCHO monitor is an ideal instrument for indoor air quality (IAQ) diagnosis and HVAC system performance verification.

FORMALDEHYDE (HCHO) is a gaseous component of the earth's atmosphere. The concentration of HCHO in natural ambient air is about 0.03 ppm. Formaldehyde is found in a number of products. While most of these products contain a relatively low amount of the compound, others have a fairly strong concentration of formaldehyde. This is particularly true with products used in the course of scientific research and other professions where tissue is preserved in some manner. Formaldehyde exposure can lead to side effects that range from mild to life-threatening.

Non-Enforced Reference Levels*

0.03 ppm – Background (normal) outdoor air level
0.10 ppm – Typical recommended upper limit for residences by ASHRAE, ANSI, EPA, NIOSH and STEL
0.40 ppm – Typical recommended upper limit for manufactured homes
0.50 ppm – Typical OSHA workplace limits.
0.75 ppm – Typical OSHA TWA limit
0.80 ppm – Level at which most people first detect odor
2.00 ppm – Typical OSHA STEL limit

SPECIFICATIONS

HCHO

Measurement Range: 0.00 to 5.00 ppm @25ºC (77ºF), ambient pressure
Accuracy: ±5%, + 0.03 ppm
Resolution: 0.01 ppm

Temperature

Range: 0 to 50ºC (32 to 122ºF)
Accuracy: ±0.1ºC (2ºF) [0 to 50ºC (32 to 122ºF)]
Resolution: 0.1ºC (0.1ºF)

Relative Humidity

Range: 10 to 90% RH
Accuracy: ±5% RH [at 25ºC (77ºF)

Memory Capacity: 32,000 readings
Storage Temperature: -40 to 70ºC (-40 to 158ºF)
Interface: USB
Response Time: Less than 30 seconds (T90)
Dimensions: 110 H x 108 W x 28 mm D (4.33 x 4.25 x 1.10")
Weight: 165 g (5.8 oz)

Model No.	Description
AQM-101	HCHO, RH and temperature monitor and data logger
AQM-100-PW	AC adaptor (optional)

Comes complete with 4 "AAA" batteries, USB cable, operator's manual, AC adaptor and software CD.

** Local regulatory exposure limits will vary.*

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Carbon Dioxide Monitor and Data Logger

AQM-102

CE

- Large LCD Displays CO_2 Level, Temperature, Relative Humidity, Calendar (Y/M/D) and Time
- Six (6) Smiley Icons Indicate Indoor Air Quality Levels at (350/450/700/1000/2500/5000 ppm)
- Stable NDIR Sensor for CO_2 Detection
- Programmable High Alarm
- Manual 400 ppm Calibration
- Audible/Visible Led Warning for High CO_2 Concentration
- Heat Index/WBGT Temperature Calculation

AQM-102 shown smaller than actual size.

The AQM-102 is designed to measure CO_2 concentration, air temperature and relative humidity with visible and audible alarms. This CO_2 monitor is an ideal instrument for indoor air quality (IAQ) diagnosis and HVAC system performance verification.

Carbon dioxide (CO_2) is a gaseous component of the earth's atmosphere. The concentration of CO_2 in natural ambient air is about 0.04% or 400 ppm. With each breath, humans convert oxygen (O_2) into carbon dioxide (CO_2). Although carbon dioxide is invisible and odorless, increased CO_2 levels can cause headaches, drowsiness and a loss of the ability to concentrate or worse.

Non-Enforced Reference Levels*

250 to 350 ppm	– Background (normal) outdoor air level
350 to 1000 ppm	– Typical level in occupied spaces with good air exchange
1000 to 2000 ppm	– Level associated with complaints of drowsiness and poor air
2000 to 5000 ppm	– Levels associated with headaches, sleepiness and stagnant, stale, stuffy air; poor concentration, loss of attention, increased heart rate and slight nausea may also be present
>5000 ppm	– Exposure may lead to serious oxygen deprivation resulting in permanent brain damage, coma and even death

SPECIFICATIONS

CO_2

Measurement Range: 0 to 9999 ppm
Accuracy: ±30 ppm, + 3% of rdg
Resolution: 1 ppm

Temperature

Range: -40 to 85ºC (-40 to 185ºF)
Accuracy: ±1.2ºC (2.2ºF)
Resolution: 0.1ºC (0.1ºF)

Relative Humidity

Range: 0.0 to 90% RH
Accuracy: ±3% RH [at 25ºC (77ºF), from 10 to 90 RH], ±5% RH beyond 10%

Memory Capacity: 32,000 readings
Storage Temperature: -40 to 70ºC (-40 to 158ºF)
Interface: USB
Dimensions: 110 H x 108 W x 28 mm D (4.33 x 4.25 x 1.10")
Weight: 165 g (5.8 oz)

Model No.	Description
AQM-102	CO_2, RH and temperature monitor and data logger
AQM-100-PW	AC adaptor (optional)

Comes complete with 4 "AAA" batteries, USB cable, operator's manual, AC adaptor and software CD.

***** *Local regulatory exposure limits will vary.*

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Carbon Monoxide Monitor and Data Logger

AQM-103

AQM-103 shown smaller than actual size.

- Large LCD Displays CO Level, Temperature, Date and Time
- Programmable High Alarm
- Audible/Visible LED Warning for High CO Concentration

The AQM-103 is designed to measure CO concentration and air temperature with visible and audible alarms. This CO monitor is an ideal instrument for indoor air quality (IAQ) diagnosis and HVAC system performance verification.

CO is a common byproduct of the combustion of fossil fuels. Carbon monoxide or CO is a colorless, odorless and tasteless gas. Due to this fact, it is very hard to detect the presence of CO in your environment. It is, however, imperative that the CO levels are carefully monitored. Even at relatively low levels, CO is poisonous because it rapidly accumulates in the blood thereby depleting its ability to carry oxygen. Extreme cases of CO poisoning result in death.

For healthy adults CO becomes toxic when it reaches a level higher than 30 ppm (parts per million) with continuous exposure over an eight hour period.

SPECIFICATIONS

Carbon Monoxide

Measurement Range: 0 to 999 ppm
Accuracy: ±5% of rdg or ±10 ppm whichever is greater
Resolution: 1 ppm

Temperature

Range: 0 to 50ºC (32 to 122ºF)
Accuracy: ±0.6ºC (1.2ºF)
Resolution: 0.1ºC (0.1ºF)

Memory Capacity: 32000 readings
Storage Temperature: -40 to 70ºC (-40 to 158ºF)
Interface: USB
Dimensions: 110 H x 108 W x 28 mm D (4.33 x 4.25 x 1.10")
Weight: 165 g (5.8 oz)

Model No.	Description
AQM-103	CO, RH and temperature monitor and data logger
AQM-100-PW	AC adaptor (optional)

Comes complete with 4 "AAA" batteries, USB cable and operator's manual, AC adaptor and software CD.
Local regulatory exposure limits will vary.

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