

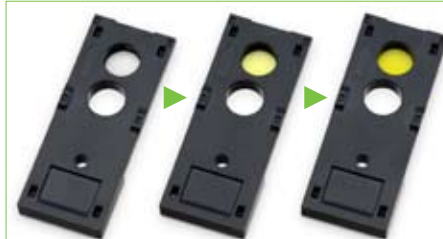
Innovative New Method of Formaldehyde Measurement



Detachable Sensor Cartridge

- Small colorimetric sensor cartridge, 43x17x4mm (1.7x0.7x0.16in), easy-to-use, reusable*, highly accurate for passive diffusion sampling.
- Portable base utilizes photoelectric photometry to read the absorbance change that HCHO induces in the sensor, then re-zeros between readings.
- Sensor cartridge itself can work as a stand-alone passive sampler.
- Base unit w/sensor inserted can operate as an on-site monitor for short-term (30min/1h) sampled measurement and for continuous monitoring/ trend logging*.
- Base unit interfaces to GrayWolf's AdvancedSense™ and WolfPack™ for simultaneous display and logging of additional parameters (and for powerful annotation features).

Measurement Principle



Colorimetric reaction to exposure

Sensor element employs the chemical reaction between formaldehyde and β -diketone on a porous glass. The concentration of rutidine derivatives yellows the sensor in proportion to the formaldehyde concentration and the duration of exposure. The difference of absorbance between samples is measured by radiating a constant wavelength light (absorptiometric method) and then an algorithm converts to ppb or $\mu\text{g}/\text{m}^3$ HCHO.

* Sensor reuse depends on HCHO exposure (~4 x 30 minute tests at 1ppm, ~150 tests at 80ppb, up to 1000 tests <10ppb HCHO)

FM-801

Formaldehyde Multimode Monitor



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FM-801

Formaldehyde Multimode Monitor



Provided with GrayWolf's powerful WolfSense™ PC data transfer and reporting software. Download readings stored on the FM-801 base unit when used as a stand-alone, or when interfaced to a GrayWolf AdvancedSense instrument or WolfPack area monitor.

Specifications

Model Name	FM-801
Detection Principle	Photoelectric Absorptiometric
Detection Range	<20ppb to 1,000 ppb, < 25 µg/m ³ to 1230 µg/m ³
Accuracy	+/- 10 ppb at 40, 80, 160ppb
Resolution	1ppb
Concentration Units	ppb or µg/m ³
Display	Digital LCD
Sampling Method	Passive diffusion sampling
Operating Temp. and RH	-10 to 40°C (14 to 104°F), 0 to 90%RH
Sensor Shelf Life	1 year from mfg. date (stamped on pouch)
Memory (base unit)	up to 250 sensors and 4500 data points
Power Source	2 x AA size Alkaline batteries, or AC adaptor
Standard Accessories	Sensor cartridge x 5 pcs, carrying case, USB connection cable, AA size batteries, mini flex tripod, WolfSense PC data transfer & reporting software

Sensitivity to Interference Gas (Exposure duration: 1 hour)

	Concentration (ppm)	FMM-MD readout value (ppb)
Benzene	2000	0 (≤10)
Toluene	2000	0 (≤10)
Xylene	2000	0 (≤10)
Ethylbenzene	2000	0 (≤10)
Ethanol	2000	0 (≤10)
Acetone	2000	0 (≤10)
α-pinene	2000	0 (≤10)
Chloroform	25	14
Limonene	200	1 (≤10)
Styrene	200	2 (≤10)
Acetaldehyde	200	3 (≤10)
Nitrogen Dioxide	1	-42 (≤10)
Sulfur Dioxide	1	-2 (≤10)



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