# FORMALDEMETER htV

## PORTABLE DIRECT READING FORMALDEHYDE MONITOR

#### **FEATURES**

- **■** Easy to use minimal training required
- Rapid response time
- Small, hand-held instrument
- Light-weight
- **■** Built-in sampling pump
- Standard 9V alkaline battery operation
- Temperature and humidity can also be displayed
- Reliable electrochemical sensor
- Simple in-field calibration
- Optional Base Unit for continuous monitoring

#### **APPLICATIONS**

Formaldehyde is a common contaminant found in new construction, residential housing and commercial buildings following renovation. It is used in many products, industries and other types of activities, including:

Textile treatment Paper products

Medical labs

Biological

Laminated boards

Dye stuffs

Pharmaceuticals Particle boards

Synthetic resins Commercial buildings

Horticulture Cosmetics

Paints Residential construction

Mortuaries Hospitals

The Formaldemeter htV offers a simple way

to monitor levels of airborne formaldehyde

in the environment. The instrument is easy to use with a simple four-button keypad and features an easy-to-read four-digit display. It employs a well-proven electrochemical formaldehyde sensor that will provide an immediate indication of formaldehyde levels. Unlike other formaldehyde monitoring devices, such as, color stain tubes and badges, the Formaldemeter htV is capable of measuring many samples consecutively without the need for inconvenient ancillary equipment. Real-time results also mean that potential overexposures can be identified as they occur, without the delay and expense associated with laboratory analysis.

**Also available.** the Glutaraldmeter 3, for glutaraldehyde monitoring.

#### **SPECIFICATIONS**

**Sensor:** Electrochemical

**Calibration:** In-field formaldehyde calibration standard

**Display:** 4-digit LCD

**Sampling** Typically once every 3 to 5 minutes depending

**Frequency:** on previous reading

Sample Volume: Approx. 10 ml

**Detection Range:** 0.05-10 ppm (optional high range: 80 ppm)

**Precision:** 10% at 2 ppm level

Response Time: <10 seconds

**Temperature:** By key interrogation, displayed in degrees C **Humidity:** By key interrogation, displayed in % rH

**Power:** 9 volt alkaline battery

**Enclosure:** ABS plastic

Weight: Instrument: 10 ounces (310g) Complete Kit: 1.75 lbs. (795g)

**Dimensions:** Instrument: 6 x 3.25 x 1.25 inches (150 x 80 x 32 mm)

Carrying Case: 10.5 x 8.5 x 2 inches (265 x 215 x 50 mm)



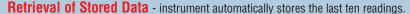
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#### PORTABLE DIRECT READING FORMALDEHYDE MONITOR

#### Sampling

- Press the ON-OFF button.
- The display will show "----" followed by "0.00" (sensor ready).
- Press the SAMPLE button.
- The display will show "run", followed by the sound of the pump sampling the air.
- The display indicates the measured concentration in approx. 10 seconds.
- Switch the instrument OFF. (Instrument will automatically shut OFF after 5 minutes).

High levels, i.e., over 1 ppm, can take at least 5 minutes to "clear" from the sensor. If formaldehyde is detected, wait 3-5 minutes before turning instrument ON for next sample. To take another sample, repeat the above steps.



- With the SAMPLE button depressed, press the ON-OFF button and then release.
- Instrument will display "HEAT" followed by the temperature in "C", alternating with humidity in "%rh".
- With the instrument in this mode, press both CAL buttons simultaneously until the display shows "dAtA".
- Release the buttons.
- The display will show "run0" followed by the result of the last sample.
- Scroll the last ten results using the CAL buttons.



#### Phenol Filters (supplied with instrument kit)

These filters can be used, when necesssary, for the removal of phenol and resorcinol.

#### Calibration Standard (supplied with instrument kit)

The calibration standard is a tube which produces a known concentration of formaldehyde vapor for testing and, if necessary, adjusting the accuracy of the monitor. The standard

#### **CROSS SENSITIVITY CHART**

Compound	ppm to = 1 ppm reading
Acetone	No Response
Acetaldehyde	8-12
Acetic acid	No Response
Ammonia	71000
Butanol	Note (2)
Carbon monoxide	100
Ethylene	160
Ethanol	12-20
Formaldehyde	1.0
Glutaraldehyde	7100 at 25° C, Note (3)
Methanol	50
Phenol	5, Note (1)
Propanol	Note (2)
Resorcinol	5, Note (1)
Notes:	
110103.	

- (1) Completely removed with filter provided (2) Interference above 60° C and 20 ppm
- (3) Monitor with Glutaraldmeter 3

has a 100-sample capacity or a useful life of six months, whichever occurs sooner.

Instrument Kit

#### **OPTIONS**

#### **AMS-2 Base Unit**

The Base Unit automates operation of the Formaldemeter htV for semi-continuous sampling. Monitoring of all three parameters (formaldehyde, temperature, and humidity) is possible with the AMS-2, giving real-time data and alarm (TWA/STEL) levels. A built-in printer provides a record of the results. All data is stored and can be downloaded to a PC via RS-232 and available download software.

#### AMS-2/htV Download Software

Data logged into the AMS-2 can be viewed on the LCD and outputted to the integral printer. If required, the data can be downloaded to most PC based spreadsheets using the AMS-2/htV Download Software.

#### ORDERING INFORMATION

UNDERING INFUNITATION	
Description	
Instrument Kit, with Formaldemeter htV, 10 phenol filters, thermom-	
eter, pen, calibration standard, instruction manual and case.	
Instrument Kit, with Glutaraldmeter 3, 10 phenol filters, thermometer,	
pen, calibration standard, instruction manual and case.	
Optional data logging station, Model AMS-2 Base Unit for htV	
Optional PC download software for AMS-2/htV	
Formaldehyde Calibration Standard, typical life 6 to 12 months	
Glutaraldehyde Calibration Standard, typical life 6 to 12 months	
Replacement Phenol Filters, pack of 10	
Replacement Formaldehyde Sensor, typical life 3-4 years	

