

## Formaldemeter htV

### Overview:

The 3-parameter Formaldemeter htV from PPM Technology directly measures airborne formaldehyde concentrations as well as ambient temperature and humidity levels. Building on the technology developed in the popular Formaldemeter 400, with the addition of unique compensation techniques, the htV can now accurately measure low levels of formaldehyde — even in humid conditions — while still maintaining ease of use and simple calibration.

### Applications:

- Medical care & sterilization
- Pharmaceuticals
- Agriculture
- Fumigation
- Paint and paper manufacture
- Textiles & dye manufacture
- Particle & laminate boards
- Building management
- Air conditioning system management
- Environment and public health agencies




### Quality matters.

With further importance being put on air quality in public buildings, the workplace and in homes, the htV is aimed towards being the most accurate monitor while still providing quick and simple operation from a hand-held device.

- Displays formaldehyde concentration in both parts per million (ppm) and mg/m<sup>3</sup>.
- Immune to extremes of humidity and temperature thanks to a unique sampling method.
- Simple calibration procedure can be carried out in a few minutes after only minimal training – the full kit contains a field calibration standard (6 months shelf-life) and a comprehensive operation manual.
- Fast sampling by pressing a single button and quick recovery from normal concentrations.
- Manufactured to ISO 9001:2000 quality standards and compliant to CE regulations.

### About Kem Medical Products Corp.

We offer a complete line of products to measure exposure to toxic chemicals including VAPOR-TRAK Monitoring Badges, real-time gas monitors and on-site surveys as part of our full range of safety products and services for healthcare facilities. Kem Medical Products Corp. has been proudly serving the healthcare industry since 1980. Our mission is to provide healthcare professionals with the high quality products and solutions they need in order to maintain a safe and effective work environment. 

### Kem Medical Products Corp.

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## Formaldemeter htV: Specifications and Features

SPECIFICATIONS	
Sampling Method	10 ml snatch-sample of air taken by internal pump.
Sampling Frequency	One minute in normal IAQ conditions.
Response Time	60 seconds in 'high accuracy' mode and approximately 8 seconds in 'lower accuracy' mode.
Mechanical	150 x 80 x 34mm ABS plastic case. Padded accessory-case 266 x230 x 50mm.
Weight	270g with 9v PP3 alkaline battery. Total kit weighs 750g.

FORMALDEHYDE SENSOR	
Type	Electrochemical manufactured by PPM Technology.
Range	0-10 ppm as standard (0-12.3 mg/m <sup>3</sup> at 25°C). Extended range available on request.
Resolution	0.001 ppm.
Accuracy	10% at 2 ppm.
Precision	94% of all instrument readings meet the NIOSH criteria for an acceptable method when measuring 0.3 ppm of formaldehyde over a relative humidity range of 25-70%. The NIOSH criterion for acceptability is that all results fall within $\pm 25\%$ of the true value at the 95% confidence level.
Calibration	By user with supplied calibration standard or by original manufacturer.

TEMPERATURE & HUMIDITY MODULE	
Type	Interchangeable digital CMOSens.®
Range	-40 to +128°C, 0-100% RH.
Accuracy	$\pm 0.4^\circ\text{C}$ , $\pm 3\%$ RH. Optional upgrade to $\pm 0.3^\circ\text{C}$ , $\pm 1.8\%$ RH.
Calibration	Calibrated to ISO/IEC17025 by manufacturer. Traceable by the 'National Institute of Standards and Technology' and the 'National Physical Laboratory'.

## FEATURES

**Four-button interface:** The Formaldemeter htV has the same simple, easy-to-use, 4-button layout as the htV-m and Glutaraldemeter units. One button to turn on and another to sample. By pressing particular button combinations together, the user can access temperature and humidity readings, check the gain and also calibrate the unit with the provided formaldehyde standard.

**Temperature and humidity module:** With its built-in temperature and humidity module (located at the top, next to the brass sampling nozzle), the Formaldemeter htV is able to accurately measure formaldehyde concentrations, as well as ambient temperature and humidity levels. The temperature and humidity in an environment is taken into account when calculating the final formaldehyde reading.

**Optional desk stand:** A simple, fold-out stand allows the htV to sample in an upright position, while also providing a better viewing angle. *Note: This is an optional accessory. Please specify if you wish to have this installed when ordering.*

**Kit contents:** Formaldemeter htV instrument with battery; phenol filters (10-pack); formaldehyde calibration standard tube; manual; pen, thermometer.



A PPM Technology product.