

# Glutaraldemeter™ 3

The advanced direct read Glutaraldehyde monitor from PPM Technology

The Glutaraldemeter 3 is an easy-to-use, portable instrument that employs an electrochemical sensor to indicate levels of glutaraldehyde vapour in air.

The instrument provides a rapid direct read-out of vapour levels on an LCD display, making it a useful screening tool to complement existing routine chemical glutaraldehyde monitoring techniques.

#### Features:

- ◆ User friendly and easy to use
- ◆ Auto zero function to prevent sensor creep
- ◆ Peak hold function and time-to-peak analysis
- ◆ 10 reading memory
- ◆ Automated calibration procedure



#### Advantages:

- ◆ Easy to use – minimal operator training required
- ◆ Real time readings allow immediate response to results
- ◆ Reliable electrochemical sensor
- ◆ Does not require inconvenient ancillary sampling equipment or readers
- ◆ Simple in-field calibration
- ◆ Connectivity to AMS-2 or PC for continuous monitoring

#### Uses:

- ◆ Medicine
- ◆ Dentistry
- ◆ Pharmaceutical
- ◆ Veterinary Medicine
- ◆ Paper Manufacture
- ◆ Leather & Textile Treatment
- ◆ X-Ray Processing
- ◆ Microbiology
- ◆ Histopathology
- ◆ Endoscopy

## Glutaraldemeter™ 3

Portable Direct Read Glutaraldehyde Monitor

The Glutaraldemeter 3 offers a simple way to monitor levels of airborne Glutaraldehyde in the workplace. The instrument has been designed with ease-of-use in mind, being operated via a simple four-button keypad and featuring an easy-to-read four-digit display.

The Glutaraldemeter 3 uses a well-proven electrochemical Glutaraldehyde sensor that will provide an immediate indication of atmospheric Glutaraldehyde levels. Unlike other Glutaraldehyde monitoring devices such as colour stain tubes and badges, the Glutaraldemeter 3 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 associated with laboratory analysis.

A Glutaraldehyde calibration standard is included in the Glutaraldemeter 3 kit that enables the user to check and adjust calibration in the field at the touch of a button.

### How to use:

1. **Hold the instrument in the atmosphere to be analysed.**
2. **Depress the SAMPLE button.**
3. **The Glutaraldehyde concentration is displayed in parts-per-million (ppm) in approximately 60 seconds.**



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PPM Technology Ltd reserves the right to change the design or specification without prior notice.

## TECHNICAL SPECIFICATION

<b>Sensor:</b>	Electrochemical
<b>Calibration:</b>	In-field Glutaraldehyde calibration standard
<b>Display:</b>	4 digit LCD
<b>Sampling Frequency:</b>	0 – 3 minutes depending on previous reading
<b>Sample volume:</b>	Approx. 10 ml
<b>Detection Range:</b>	0 – 10 ppm (other ranges available on request)
<b>Precision:</b>	10% at 2 ppm level
<b>Response Time:</b>	Approximately 60 seconds from sampling
<b>Power:</b>	9V PP3 alkaline battery
<b>Enclosure:</b>	ABS plastic
<b>Weight:</b>	Instrument: 270g Complete Kit: 750g
<b>Dimensions:</b>	Instrument: 150 x 80 x 34 mm Carrying Case: 266 x 230 x 50 mm

### Kit Contents

- 1 Glutaraldemeter 3 instrument with battery
- 1 Glutaraldehyde calibration standard tube
- 1 Pack of phenol filters (10)
- 1 Thermometer
- 1 Ballpoint pen
- 1 Operation manual



## ACCESSORIES

### Phenol filters

Complete removal of contaminants such as phenol and resorcinol can be achieved by attaching PPM Phenol Filters to the sampling port of the instrument.

### Calibration standard

PPM supplies an easy-to-use formaldehyde calibration standard tube for checking and adjusting the calibration of the Glutaraldemeter 3. The tube produces a known concentration of Glutaraldehyde vapour that can be sampled by the instrument to check accuracy and performance. The standard has a 100-sample capacity or a useful life of six months (whichever occurs sooner).

### PPM AMS-2 Aldehyde Monitoring Station

The PPM AMS-2 enables the Glutaraldemeter 3 to be used as a data logging semi-continuous Glutaraldehyde area monitor. The AMS-2 is a compact bench top unit that connects to the hand held instrument and essentially automates the operation of the Glutaraldemeter 3.

### Single / Multi Point System

The Single / Multi Point Monitoring System enables Glutaraldehyde monitoring to be carried out at one or more location simultaneously. Several monitoring points can be connected to the system and monitored at a central location via one PC.

## Extract from the summary of independent validation by *Inversek Research International Ltd.* of the PPM Glutaraldemeter:

**Meter Readings:** Glutaraldehyde stream, concentration determined to be 0.100ppm by amended MBTH method

Meter	1	2	3	4	5	6	Mean	Coeff of var
01	0.11	0.12	0.11	0.10	0.11	0.12	0.11	6.7
05	0.10	0.10	0.10	0.11	0.12	0.12	0.11	9.1
09	0.12	0.13	0.12	0.12	0.12	0.13	0.12	4.21

(All concentrations in ppm)

### Calibration Standards: Calibration Performance

Meter	1	2	3	4	5	6	Coeff of var
01	0.54	0.51	0.48	0.51	0.45	0.50	6.9
05	0.59	0.57	0.54	0.60	0.52	0.56	6.0
09	0.56	0.54	0.50	0.60	0.55	0.55	6.6

(All concentrations in ppm)