



# FUMIGATION EQUIPMENT

Come to the experts for your fumigation gas detection needs.



- Largest manufacturer of gas detection equipment in India
- An ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 Certified Company
- DSIR National Award winner for indigenous technology development
- Global presence, with distribution network spread over 40 countries.



PH<sub>3</sub>

PHOSPHINE



**KwikAlert  
PH<sub>3</sub> - Lo Gas Monitor**

For detection of Phosphine at TLV level, for personal protection and safety.

**Application**

- TLV level monitoring around the fumigated space
- Leak detection from the fumigation chamber

**Features**

- Micro-processor based technology with high contrast, easy to read OLED display
- Range: 0 - 20 ppm
- Resolution: 0.01 ppm
- Data logging capability with Gas\_conc, TWA\_conc, Date & Time information
- Audible/Visual alarm
- Soft power start - to avoid accidental ON/OFF
- USB interface with PC
- GUI for data downloading & sorting



**Fumisense Pro  
PH<sub>3</sub> - (Lo/Hi) with inbuilt pump**

It comes with an inbuilt sample draw pump and data logging facility with sample identity and date-time stamp. It has two models

- I) Fumisense Pro Phosphine-Lo for leak detection and personal protection application Range: 0 - 20 ppm  
Resolution: 0.01 ppm
- II) Fumisense Pro Phosphine-Hi for fumigation monitoring application Range: 0 - 2000 ppm / 0 - 5000 ppm | Resolution: 1 ppm

**Features**

- 20 x 4 OLED display for better readability
- Continuous as well as Batch sampling provision
- Data logging facility with informations like Gas\_conc., Warehouse no., Silo no., Date & Time.
- USB interface with PC
- GUI for data downloading, sorting & report generation
- Soft power start - to avoid accidental ON/OFF



**Fumisense Pro  
PH<sub>3</sub> - Hi (CO) with inbuilt pump**

**Application**

Phosphine concentration measurement when CO is present along with phosphine, like in tobacco fumigation

**Features**

- Range: 0 - 1000 ppm
- Resolution: 1 ppm
- 20x4 OLED display & inbuilt air sampling pump; can draw sample from 30m
- Continuous as well as Batch sampling provision
- Data logging facility with informations like Gas\_conc., Warehouse no., Silo no., Date & Time.
- USB interface
- GUI for data downloading, sorting & report generation
- Soft power start - to avoid accidental ON/OFF



**UNIPHOS  
Gas Detector Tubes**

**Application**

- For the spot checking of Phosphine in and around the fumigated space
- To be used with ASP-40 air sampling pump
- Measurement Range
  - 0.05 - 2.5 ppm
  - 0.3 - 5 ppm
  - 0.1 - 10 ppm
  - 5 - 100 ppm
  - 50-1000 ppm
  - 150-3000 ppm
  - 300-8000 ppm
- Easy to use and accurate



**UNIPHOS  
Detector Strips**

These are paper strips impregnated with sensing chemicals by a special process for semiquantitative measurement of phosphine. The strip on exposure to PH<sub>3</sub> gas changes its colour. The time it takes to change the colour is related to the PH<sub>3</sub> gas concentration. They are used for checking the fumigated area after aeration and to see if the area is safe for entry. These strips can also be given to the workers as badges when they are working in/near fumigated stacks.

- Range: 0.3 – 10 ppm
- Simple semiquantitative method of Phosphine detection



**UNIPHOS  
Dosimeter Tubes**

Phosphine Dosimeter tubes is a device which provides the concentration time product (DOSE) of phosphine during fumigation. Unlike normal detector tubes, Phosphine enter into the dosimeter tube by diffusion. The stain length obtained on the dosimeter tube which is kept in the fumigated enclosure for the entire period of fumigation gives the total dose received by the fumigated commodities.

- Ranges : (1-20) X 10<sup>3</sup> ppm hrs  
: (1-200) X 10<sup>2</sup> ppm hrs

### FumiGuard

The FumiGuard is a state of the art online Phosphine ( $\text{PH}_3$ ) or Methyl bromide (MBr) detection system for fence line monitoring of a fumigated area. The system consists of a master control unit connected to 1 to 8 field detection heads incorporating smart sensor technology. Its unique architecture and modular design allows the user to use 1 to 8 easy to connect detection heads as per their requirement. The system detects and logs the gas concentrations with GPS coordinates and time stamp. It is also equipped with telemetry connection (via GSM mobile networks) to transmit instantaneous data to a cloud server for remote monitoring.

#### Features

- Gas Detected :  $\text{PH}_3$  or MBr
- Detection Principle :  $\text{PH}_3$  - Electrochemical Sensor (0-20 ppm)  
: MBr - Solid State Sensor (0-200 ppm)
- Communication/ Interface : MODBUS
- Quick connectors for quick, easy and error free connection
- Micro-controller based system with pluggable smart sensor



### FumiTrack Online Fumigation Gas Monitoring System

A field mountable online fumigation gas monitoring system for detection and continuous monitoring of fumigant gas at mitigation locations. The inbuilt multi sampling ports capable of drawing sample from a distance of 100 meters provides fumigators with an option to cover multiple Silo's from a single point. It gives a digital output signal that can be connected to any suitable control system(Uniphos controller, DCS, PLCs etc) by RS-485 MODBUS RTU. It also gives an industry standard 4-20mA analog output signal, in addition it also provides digital input/output for PLC control. It is available for Phosphine gas.

#### Features

The System can monitor any of the below described ranges

- Ranges:  $\text{PH}_3$ : 0 - 20 ppm  
0 - 2000 ppm  
0 - 5000 ppm



# Automatic

## FumiTrack Automatic 4 Zone Fumigation Gas Monitor

A programmable, fully automatic gas monitor capable of periodic measurement from up to 4 ports at user settable intervals. Data is transferred to the Cloud, making it accessible from anywhere in the world.

### Features

- Color TFT touch-screen interface
- Range PH<sub>3</sub> : 0-2000 ppm
- Fully programmable menu - once programmed can run for several cycles of operation covering entire fumigation period, without any human intervention
- Logging of gas concentration levels with information like Cycle No., Date, Time, Site & Location on a USB memory drive
- Remote data upload to the cloud using GSM technology
- Inbuilt sample draw pump – can draw sample from 100 meter
- Housed in a tough Pelican Storm Case – weather and waterproof



## FumiTrack Expansion Module

### Features

- The FumiTrack Expansion module adds an additional 8 sampling ports to the standard 4 ports of the FumiTrack.
- Powered and programmable from the FumiTrack
- Easy to Attach and Detach
- Inbuilt sample draw pump – can draw sample from 100 meter
- Housed in a tough Pelican Storm Case – weather and waterproof



# MBr

Methyl Bromide



## KwikAlert MBr - Lo Gas Monitor

- An ideal instrument for Methyl Bromide monitoring for personal protection and safety. It can also be used to detect leaks from the fumigation chamber

### Features

- Micro-processor based technology with high contrast, easy to read OLED display
- Range: 0 - 200 ppm
- Resolution: 1 ppm
- Data logging capability with Gas\_conc, Date & Time information
- Audible/Visual alarm
- Soft power start - to avoid accidental ON/OFF
- USB interface with PC
- GUI for data downloading & sorting



## UNIPHOS Gas Detector Tubes

### Application

- For spot checking of MBr in and around the fumigated space
- To be used with the ASP-40 Air Sampling Pump
- Ranges: 1-18 ppm  
0-100 ppm  
20-300 ppm  
50-1000 ppm
- Easy to use and accurate



## Fumisense Pro MBr - (Lo/Hi) with inbuilt pump

It comes with an inbuilt sample draw pump and data logging facility with sample identity and date-time stamp. It has two models

- I) Fumisense Pro MBr-Lo for leak detection and personal protection application  
Range: 0-200 ppm | Resolution: 1 ppm
- II) Fumisense Pro MBr-Hi for fumigation monitoring application  
Range: 0-200 mg/l | Resolution: 1 mg/l

### Features

- 20x4 OLED display for better readability
- Continuous as well as Batch sampling provision
- Data logging facility with informations like Gas\_conc., Warehouse no., Silo no., Date & Time.
- USB interface with PC
- GUI for data downloading, sorting & report generation
- Soft power start - to avoid accidental ON/OFF

# KWIKDRAW UNIPHOS

## KwikDraw Gas Detector Tubes

### Phosphine Gas Detection Tubes

#### Application

- For the spot checking of Phosphine in and around fumigated space
- To be used with the Kwik-Draw Air Sampling Pump
- Ranges: 0.05 - 3 ppm  
0.1 - 100 ppm  
50 - 2000 ppm



### Methyl Bromide Gas Detection Tubes

#### Application

- For spot checking of Methyl Bromide in and around the fumigated space
- To be used with the Kwik-Draw Air Sampling Pump
- Ranges: 0.2 - 8 ppm  
2 - 100 ppm  
200 - 8000 ppm



# UNIPHOS

## Trusted Worldwide



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*Due to continuous development, we reserve the right to change specifications without prior notice.*



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