UNIPHOS FUMIGATION EQUIPMENT

Come to the experts for your fumigation gas detection needs.

- Largest manufacturer of gas detection equipment in India
- An ISO 9001:2008 certified company
- DSIR National Award winner for indigenous technology development
- Global presence, with distribution network spread over 40 countries.
UNIPHOS 350M-Phosphine Alert PH₃ Lo Gas Monitor

For detection of PH₃ 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

UNIPHOS Fumisense Pro PH₃-Hi with inbuilt pump

**Application**
- Phosphine concentration measurement during fumigation

**Features**
- Range: 0 - 2000 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 Fumisense Pro PH₃-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 PH₃ Gas Detector Tubes

**Application**
- For the spot checking of PH₃ in and around the fumigated space
- PH₃ detection in several measurement range
- To be used with ASP-40 air sampling pump

**Measurement Range**
- 0.05 - 2.5 ppm
- 0.1 - 10 ppm
- 50-1000 ppm
- 150-3000 ppm
- 300-8000 ppm
- Easy to use and accurate

UNIPHOS PH₃ Detector Strips

These are paper strips impregnated with sensing chemicals by a special process for semiquantitative measurement of phosphine. The strip on exposure to PH₃ gas changes its colour. The time it takes to change the colour is related to the PH₃ 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 PH₃ detection

UNIPHOS PH₃ Dosimeter Tubes

Uniphos Dosimeter tube is a device which provides the CT product (DOSE) of phosphine during fumigation. Unlike normal detector tubes, phosphine enters 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 10⁵ ppm hrs
- (1-200) X 10⁶ ppm hrs
**UNIPHOS Fumigation Equipment**

**MBr (Methyl Bromide)**

**UNIPHOS 351M MBr-Lo Gas Monitor**
- An ideal instrument for MBr 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 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 information 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.

**UNIPHOS MBr 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, 10-100 ppm, 50-1000 ppm.
  - Easy to use and accurate.

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**KwikDraw Gas Detector Tubes**

**KwikDraw PH₃ Gas Detection Tubes**
- Application:
  - For the spot checking of PH₃ in and around fumigated space.
  - PH₃ detection in several measurement range.
  - To be used with the KwikDraw Air Sampling Pump.
  - Ranges: 0.05 - 3 ppm, 0.1 - 100 ppm, 50-2000 ppm.

**KwikDraw MBr Gas Detection Tubes**
- Application:
  - For spot checking of MBr in and around the fumigated space.
  - To be used with the KwikDraw Air Sampling Pump.
  - Ranges: 2 - 100 ppm, 200-8000 ppm.
**UNIPHOS Fumispec - Lo**

UNIPHOS Fumispec-Lo is a battery operated microprocessor based portable instrument for the measurement of SO$_2$F$_2$ in the range of 0-100ppm. It is mainly designed for leak detection, during and after fumigation. Can also be used for monitoring for personal protection and safety.

**Features**
- Battery operated handheld design
- Inbuilt sampling pump
- Easy-to-fit sampling probe with dust filter
- Inbuilt port memory for data logging with location ID & date/time stamp
- USB port for data downloading
- User settable audio visual alarm
- Soft power key - to avoid accidental switching of the Instrument
- 20x4 OLED display for better readability.

**UNIPHOS Fumispec - Hi**

UNIPHOS Fumispec-Hi is a fully automatic microprocessor based portable instrument specifically designed for the monitoring of fumigation using SO$_2$F$_2$. The working range of the instrument is 5 – 150 gm/m$^3$ with the resolution of 1 gm/m$^3$.

**Features**
- NDIR sensor with temperature compensation
- Inbuilt sampling pump
- User settable active sampling port (Maximum 3)
- User settable sampling period and sampling time.
- Inbuilt memory for data logging with location ID and date/time stamp
- USB port for data downloading
- 20x4 OLED display for better readability.
- Rugged weather proof enclosure

**UNIPHOS Fumisense Dual Gas Monitor (PH$_3$ and MBr)**

The UNIPHOS FUMISENSE is a microprocessor based Dual-Gas monitor with two separate inbuilt pump for Phosphine and Methyl Bromide respectively. This tabletop portable instrument can be carried from warehouse to warehouse and to different silos to monitor phosphine or methyl bromide concentration during fumigation. It has the provision to log the data with warehouse number, silo number, sample-Location (Top, Middle & Bottom), Gas conc., Gas Name, Date & Time. It is provided with GUI to sort out the data and generate report at the end of fumigation.

**Features**
- Ranges: PH$_3$ : 0 - 2000 ppm (Electrochemical sensor)
  MBr : 0 - 200 g/m$^3$ (Thermal Conductivity Detector)
- Advanced Microprocessor based instrument
- Portable printer option for on-the-spot report printing
UNIPHOS FUMITRACK
Automatic 4 Zone Fumigation
Gas Monitor

A fully automatic, 4-port, unmanned monitoring system which can make periodic measurement and keep the sensor idle between measurements after flushing it with fresh air, resulting in longer life for electrochemical sensors.

Features
- Fully automatic equipment with high contrast OLED display
- Range: PH3: 0 - 2000 ppm
- Fully programmable menu - once programmed can run for several cycles of operation covering entire fumigation period, without any human intervention
- Data logging capability of 2000+ records with information like Cycle No., Gas conc., Site, Location, Date & Time
- Inbuilt sample draw pump - can draw sample from 100 meter
- Bluetooth & Rs-232 connectivity option.
- GSM connectivity - SMS alert
- GUI for data downloading, sorting & report generation
- Housed in a tough Pelican Storm Case – weather and waterproof
- Can also be available for MBr (0-200mg/L).

UNIPHOS FUMITRACK
Automatic Online Fumigation Gas Monitoring System

A field mountable online fumigation gas monitoring system for detection and continuous monitoring of different fumigant gases 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 and Methyl Bromide.

Features
- The System can monitor any of the below described ranges
  - Ranges: PH3: 0-2000ppm & 0-20 ppm
  - MBr: 0-200 mg/L & 0-200 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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