

UNIPHOS FUMIGATION EQUIPMENT



Come to the experts for your fumigation gas detection needs.



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



PH₃

PHOSPHINE

UNIPHOS Fumigation Equipment



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
 - 5 - 100 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 10³ ppm hrs
: (1-200) X 10³ ppm hrs

MBr

Methyl Bromide

UNIPHOS Fumigation Equipment

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 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
20-300 ppm
50-1000 ppm
- Easy to use and accurate

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 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

KWIK DRAW
UNIPHOS

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 Kwik-Draw 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 Kwik-Draw Air Sampling Pump
- Ranges: 2 - 100 ppm
200-8000 ppm





SULPHURYL FLOURIDE

UNIPHOS Fumigation Equipment



UNIPHOS Fumispec - Lo

UNIPHOS Fumispec-Lo is a battery operated microprocessor based portable instrument for the measurement of SO_2F_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

- NDIR sensor with temperature compensation
- Light weight, handheld design
- Fast start-up
- Long battery life
- Bright OLED display
- On-board data logging



UNIPHOS Fumispec - Hi

UNIPHOS Fumispec-Hi is a fully automatic microprocessor based portable instrument specifically designed for the monitoring of fumigation using SO_2F_2 . The working range of the instrument is 5 – 260 g/m^3 with the resolution of 1 g/m^3 .

Fumispec-Hi can be used with 4 port expander for applications that require sampling from multiple locations. The expander has four input ports and one output port. The output from the expander is connected to the sample IN port of the main unit (Fumispec- Hi). The expander is powered and controlled by main unit.

Features

- NDIR sensor with temperature compensation
- Fully automatic programmable monitoring
- Color TFT touch-screen interface
- On-board data logging with remote data upload to the cloud using GSM technology
- Rugged weather proof case



UNIPHOS FumiGuard

The Uniphos FumiGuard is a state of the art online Phosphine (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 : PH_3 or MBr
- Detection Principle : 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



UNIPHOS Single Port FumiTrack

The Uniphos Single Port FumiTrack is a portable programmable fumigation gas monitor for the detection and continuous monitoring of different fumigant gases during a fumigation. The inbuilt pump is capable of drawing sample from 100 meters, providing fumigators with the ability to monitor even very large grain bins or silos. Equipped with the latest embedded and IOT technologies, the unit uses a 3G/4G modem to push data to the cloud for real-time monitoring, trend analysis and report generation. The customisable web interface is user friendly and the easy to use dashboard allows the user to simultaneously view/analyse data from multiple FumiTracks as well as other Uniphos devices.

Features

- Fumigant Gases available: PH_3 (2000 or 5000 ppm) / MBr (200 g/m^3)
- Programmable monitoring intervals
- Cloud connectivity via GSM telemetry
- GPS connectivity - Location Tagging
- Camera connectivity for real time monitoring (optional)

FOUR ZONE GAS MONITOR

UNIPHOS 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 PH₃ 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
- Also available for MBr (0-200 mg/L)



Robust Pelican Storm Case

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



gasdetection@uniphos-envirotronic.com
www.uniphos-she.com

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



Safety & Environmental Monitoring Solutions



Marketing Office:
Uniphos Envirotronic Pvt. Ltd
Readymoney Terrace, 167,
Dr. Annie Besant Road, Worli,
Mumbai 400 018, India.
Tel. : +91(22) 6123 3500
Fax : +91 (22) 2497 8119

Manufactured By:
Uniphos Envirotronic Pvt. Ltd
P.O. Nahuli - 396 108,
Tal. Umbergaon,
Dist: Valsad, Gujarat, India
Tel. : +91 99099 94042
+91 75748 39945

