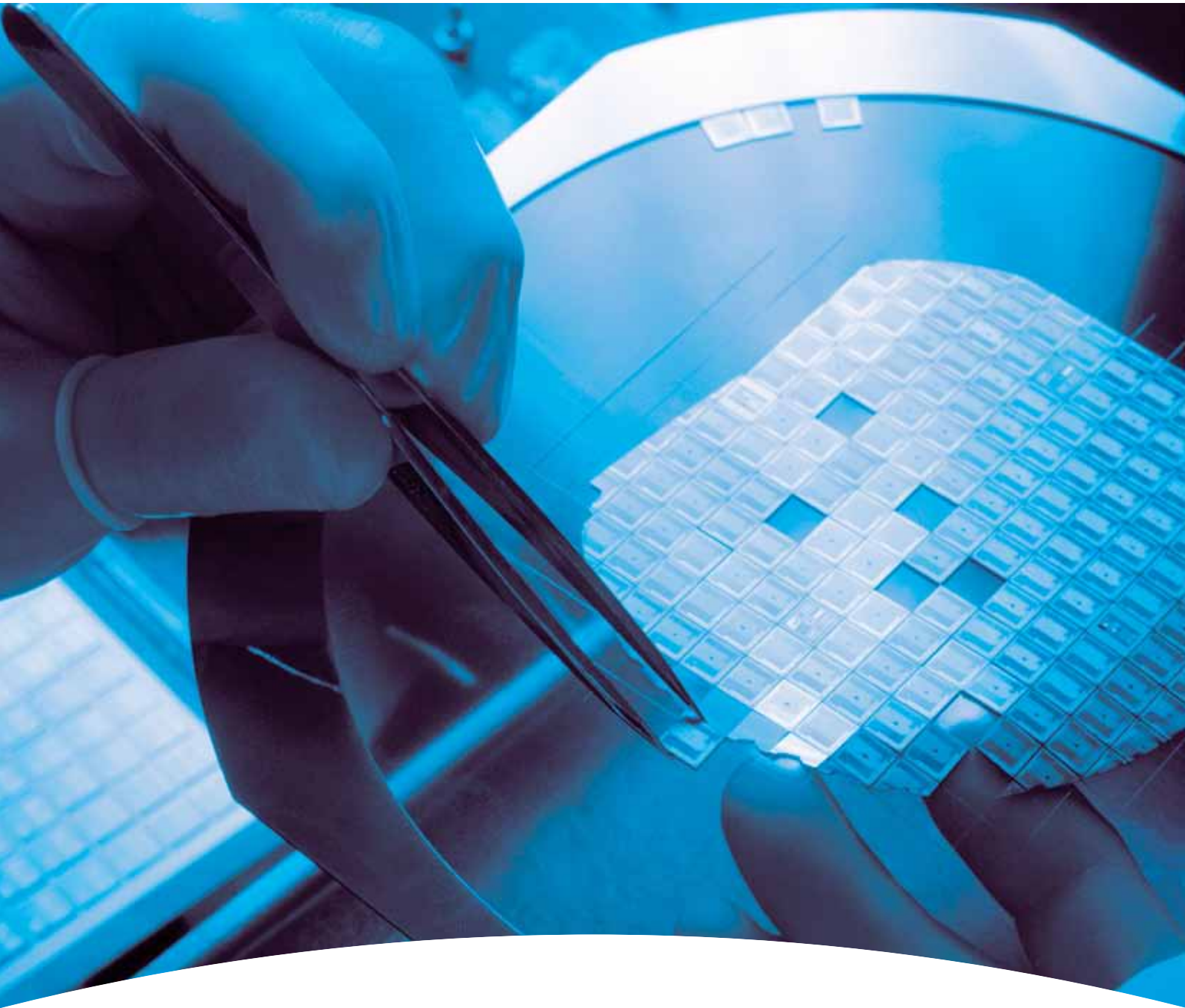


# Multi-Point Toxic Gas Monitoring System

**Honeywell**



**Vertex™ provides the most sensitive and reliable multi-point low level toxic gas monitoring system backed by physical evidence of an actual gas release**

# Multi-Point Toxic Gas Monitoring System



## Easy to use

- Touch screen for easy access to data
- Software updates via CD-ROM or network to all system components
- Configuration profile editing and data retrieval are all achievable without taking unit offline
- Radio frequency identification tag (RFID) ensures Chemcassettes are installed into appropriately programmed analyser, eliminating human error
- On-line help system

## Security

- Multiple levels of password protection
- Reconfigure security setup without taking unit offline

## Low cost of ownership

- Vertex's™ smaller footprint and greater density of points reduce your cost per point
- Eight points per analyser lowers Chemcassette® costs
- Maximised 72 point systems provide low cost per point as compared to other continuous monitors
- One system monitors up to nine gas families and more than 40 gases
- You can split your sample to more than one analyser

## Easy to maintain

- Vertex™ uses cost-effective XP Chemcassettes®, providing up to three months of continuous monitoring
- Simplified replacement of Chemcassettes® and automated optics verification
- No dynamic calibration required
- No flow balancing
- Easy access to analysers, pumps, power supplies and touch screen from front panel
- Onscreen interactive electronic manual with integral video

## Advanced communications

- Built-in configurable PLCs with optional 176 relay contacts
- Standard OPC interface for easy integration into your existing factory automation system or HMI
- Optional Ethernet/CIP, LonWorks®, DeviceNet™, DF1 Interface, Profibus, Modbus Plus, Modbus/TCP, ControlNet, or isolated 4-20mA outputs available
- Optional Chemcam camera permits viewing of stain, locally or remotely, for proof of gas event. Image is electronically saved for future retrieval.
- Optional remote control/viewing software enables total visualisation of the monitor screens at a remote PC

## Vertex™ provides a cost-effective monitoring solution that adapts to your changing gas detection needs

### Flexible

Start your Vertex™ System with as little as eight points. As your monitoring needs change, Vertex™ expands, offering you up to 72 points of continuous gas detection. Place your sampling points up to 400 feet (120 meters) from the system. There is a choice of universal analyser modules and/ or pyrolyzer analysers.

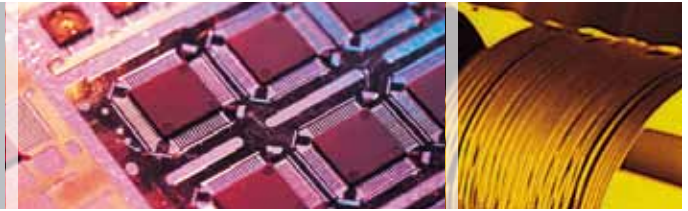
### Reliable

Vertex™ offers powerful, built-in system redundancy as standard equipment to effectively safeguard against downtime.

- Back-up pump and internal power module
- Chemcassette® technology provides physical evidence of gas event
- System data back-up. If main data acquisition PC fails, analysers continue to monitor, log data and alarm
- Drip resistant cap for system protection from overhead leaks
- Automated leak test with line integrity option



# General specification



## Continuous monitoring

### Detect More Than 40 Toxic Gases

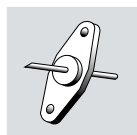
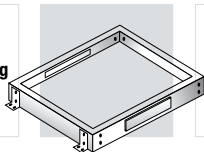
Vertex™ monitors virtually every gas used in fabs, including:

ACT935 Photoresist Stripper	Fluorine	Phosphorous Tribromide
Ammonia	Germane	Phosphorous Trichloride
Arsenic Pentafluoride	Hexachlorodisilane	Phosphorous Trifluoride
Arsenic Trichloride	Hydrogen Bromide	Silane
Arsenic Trifluoride	Hydrogen Chloride	Silicon Tetrachloride
Arsine	Hydrogen Cyanide	Silicon Tetrafluoride
Boron Tribromide	Hydrogen Fluoride	Stibine
Boron Trichloride	Hydrogen Iodide	Sulphur Tetrafluoride
Boron Trifluoride	Hydrogen Selenide	Tertiarybutylarsine
Carbonyl Fluoride	Hydrogen Sulphide	Tertiarybutylphosphine
Chlorine	n-Butylamine	Tetrachlorosilane
Chlorine Dioxide	Nitric Acid	Tetrakis (dimethylamino) titanium
Chlorine Trifluoride	Nitrogen Dioxide	Tin Tetrachloride
Cupra Select	Nitrogen Trifluoride	Titanium Tetrachloride
Diborane	Phenyl Trichlorosilane	Trichlorosilane
Dichlorosilane	Phosgene	Trimethylsilane
Digermane	Phosphine	Tungsten Hexafluoride
Dimethylamine	Phosphorous Oxychloride	Xenon Difluoride
Dimethylsilane	Phosphorous Pentachloride	
Disilane	Phosphorous Pentafluoride	

New calibrations are continuously developed

## Accessories

**Floor Mounting**



**Duct Adapter**

- Chemcam Camera
- Line Filters
- Tubing

### World leader in gas detection

Honeywell Analytics offers you more than 30 years' experience in developing patented Chemcassette® tape technology. Vertex™ Multi-Point Toxic Gas Monitoring System complements Honeywell Analytics' CM4, electrochemical cell, catalytic bead and infrared monitors.

Honeywell Analytics provides complete integrated systems solutions for semiconductor facilities, from consulting to turnkey installation.

For more information:  
Call +41 (0)44 943 4300

### 24 hour service

Honeywell Analytics' global team of technical service professionals is at your service 24 hours a day, 7 days a week in more than 60 countries.

# Our Product Range



## Fixed Gas Monitoring

Honeywell Analytics offers a wide range of fixed gas detection solutions for a diverse array of industries and applications including: Commercial properties, industrial applications, semiconductor manufacturers, energy plants and petrochemical sites.

- » Detection of flammable, oxygen and toxic gases (including exotics)
- » Innovative use of 4 core sensing technologies – paper tape, electrochemical cell, catalytic bead and infrared
- » Capability to detect down to Parts Per Billion (ppb) or Percent by Volume (%v/v)
- » Cost effective regulatory compliance solutions

## Portable Gas Monitoring

When it comes to personal protection from gas hazards, Honeywell Analytics has a wide range of reliable solutions ideally suited for use in confined or enclosed spaces.

These include:

- » Detection of flammable, oxygen and toxic gases
- » Single gas personal monitors – worn by the individual
- » Multi-gas portable gas monitors – used for confined space entry and regulatory compliance
- » Multi-gas transportable monitors – used for temporary protection of area during site construction and maintenance activities

## Technical Services

At Honeywell Analytics, we believe in the value of great service and customer care. Our key commitment is providing complete and total customer satisfaction. Here are just a few of the services we can offer:

- » Full technical support
- » Expert team on hand to answer questions and queries
- » Fully equipped workshops to ensure quick turnaround on repairs
- » Comprehensive service engineer network
- » Training on product use and maintenance
- » Mobile calibration service
- » Customised programmes of preventative/corrective maintenance
- » Extended warranties on products

### Find out more

[www.honeywellanalytics.com](http://www.honeywellanalytics.com)

### Contact Honeywell Analytics:

#### Europe, Middle East, Africa, India

Life Safety Distribution AG  
Weiherallee 11a  
CH-8610 Uster  
Switzerland  
Tel: +41 (0)44 943 4300  
Fax: +41 (0)44 943 4398  
[gasdetection@honeywell.com](mailto:gasdetection@honeywell.com)

#### Technical Services

EMEA: [HAexpert@honeywell.com](mailto:HAexpert@honeywell.com)  
US: [ha.us.service@honeywell.com](mailto:ha.us.service@honeywell.com)  
AP: [ha.ap.service@honeywell.com](mailto:ha.ap.service@honeywell.com)

[www.honeywell.com](http://www.honeywell.com)

#### Americas

Honeywell Analytics Inc.  
405 Barclay Blvd.  
Lincolnshire, IL 60069  
USA  
Tel: +1 847 955 8200  
Toll free: +1 800 538 0363  
Fax: +1 847 955 8210  
[detectgas@honeywell.com](mailto:detectgas@honeywell.com)

#### Asia Pacific

Honeywell Analytics Asia Pacific  
#508, Kolon Science Valley (I)  
187-10 Guro-Dong, Guro-Gu  
Seoul, 152-050  
Korea  
Tel: +82 (0)2 6909 0300  
Fax: +82 (0)2 2025 0329  
[analytics.ap@honeywell.com](mailto:analytics.ap@honeywell.com)

#### Please Note:

While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This publication is not intended to form the basis of a contract.