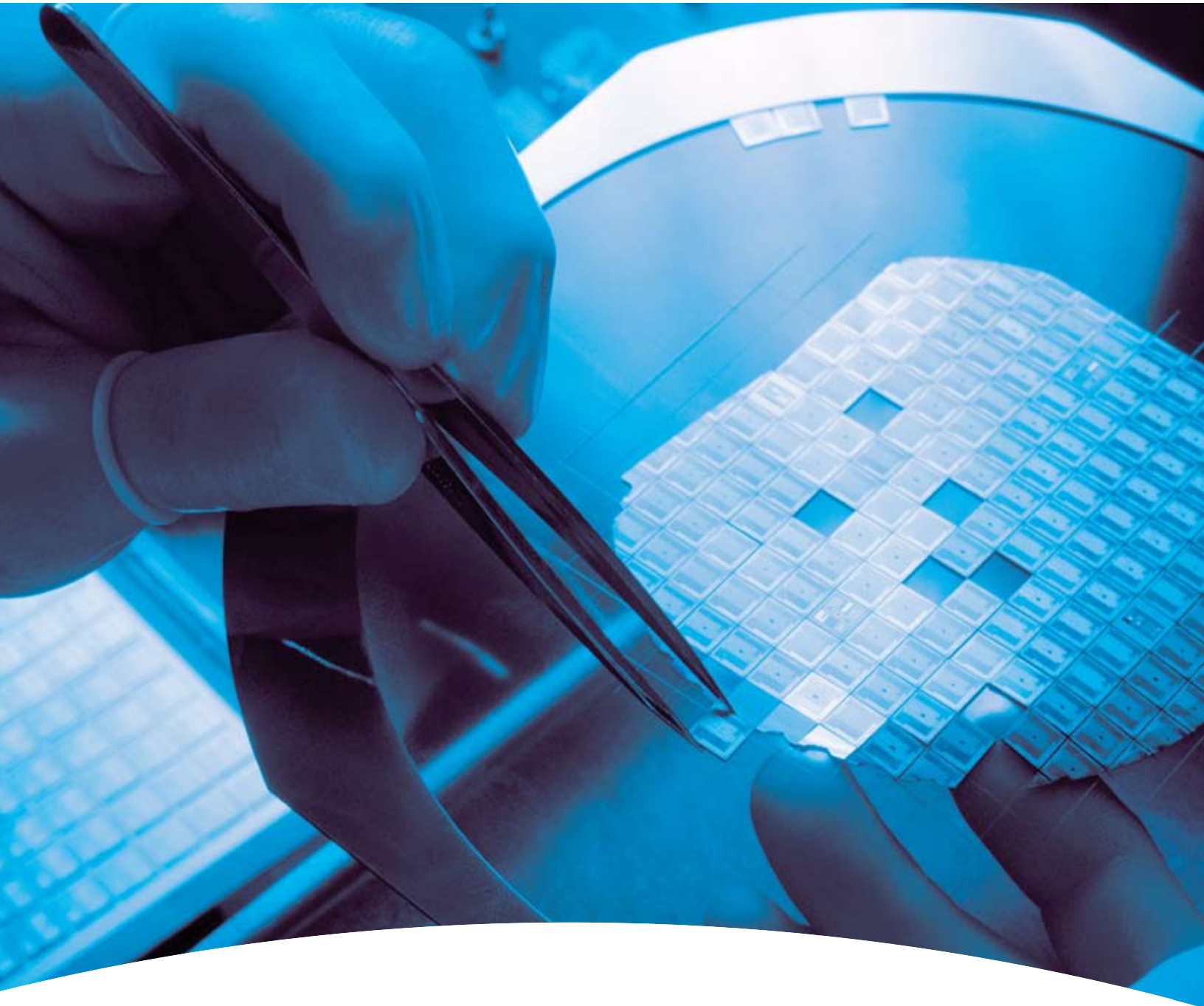


# MDA Scientific Multi-Point Toxic Gas Monitoring System

**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 analyzer, 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 analyzer lowers Chemcassette® costs
- Maximized 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 analyzer

## 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 analyzers, pumps, power supplies and touch screen from front panel
- Onscreen interactive electronic manual

## 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 or ControlNet 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 visualization 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 analyzer modules and/or pyrolyzer analyzers.

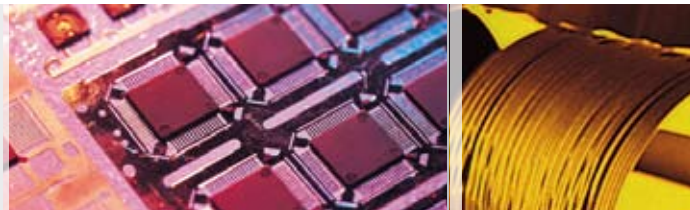
### Reliable

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, analyzers 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

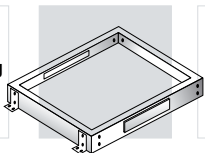
### Detect More Than 40 Toxic Gases

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

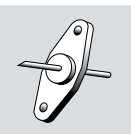
ACT935 Photoresist Stripper	Germane	Phosphorous Trifluoride
Ammonia	Hexachlorodisilane	Silane
Arsenic Pentafluoride	Hydrogen Bromide	Silicon Tetrachloride
Arsenic Trichloride	Hydrogen Chloride	Silicon Tetrafluoride
Arsenic Trifluoride	Hydrogen Cyanide	Stibine
Arsine	Hydrogen Fluoride	Sulfur Tetrafluoride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

## 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 1-800-538-0363 (USA) or 1-954-514-2700

### 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.

# Honeywell Analytics Lines of Business



## Commercial

Gas detection from standalone units to fully engineered, multi-point systems, all offering cost-effective regulatory compliance

- » Applications: parking structures, chillers, mechanical rooms, office towers, commercial buildings, shopping centers, swimming pools, golf courses, schools and universities, laboratories

## Industrial

Renowned Sieger and Manning gas detection systems with advanced electrochemical, infrared and open path sensing technologies

- » Applications: oil and gas, cold storage, water/wastewater treatment, chemicals, engine rooms, plastics and fibers, agriculture, printing and light industrial

## Portables

Single or multi-gas Lumidor and other premium detectors with compact, lightweight designs ranging from simple alarm only units to advanced, fully configurable and serviceable instruments

- » Applications: underground utility and electricity ducts, boiler rooms, post-fire sites, sewers, industrial plants, industrial hygiene, first responder teams, remote fleets



## Find out more

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

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### Technical Services

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

## High Tech/Government

A complete portfolio of gas and chemical detection instrumentation including infrared spectroscopy (MST) with no cross interference, to Chemcassette paper-based solutions (MDA Scientific) offering detection down to parts per billion

- » Applications: semiconductor manufacturing and nanotechnology, aerospace propulsion and safety, specialty chemicals industry, research laboratories, emergency response

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## Technical Services

24/7 global network includes post-sales service and Systems Integration teams

- » Emergency call out, service contracts, on/off-site repair, training and commissioning
- » Complete range of spares, consumables and accessories

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