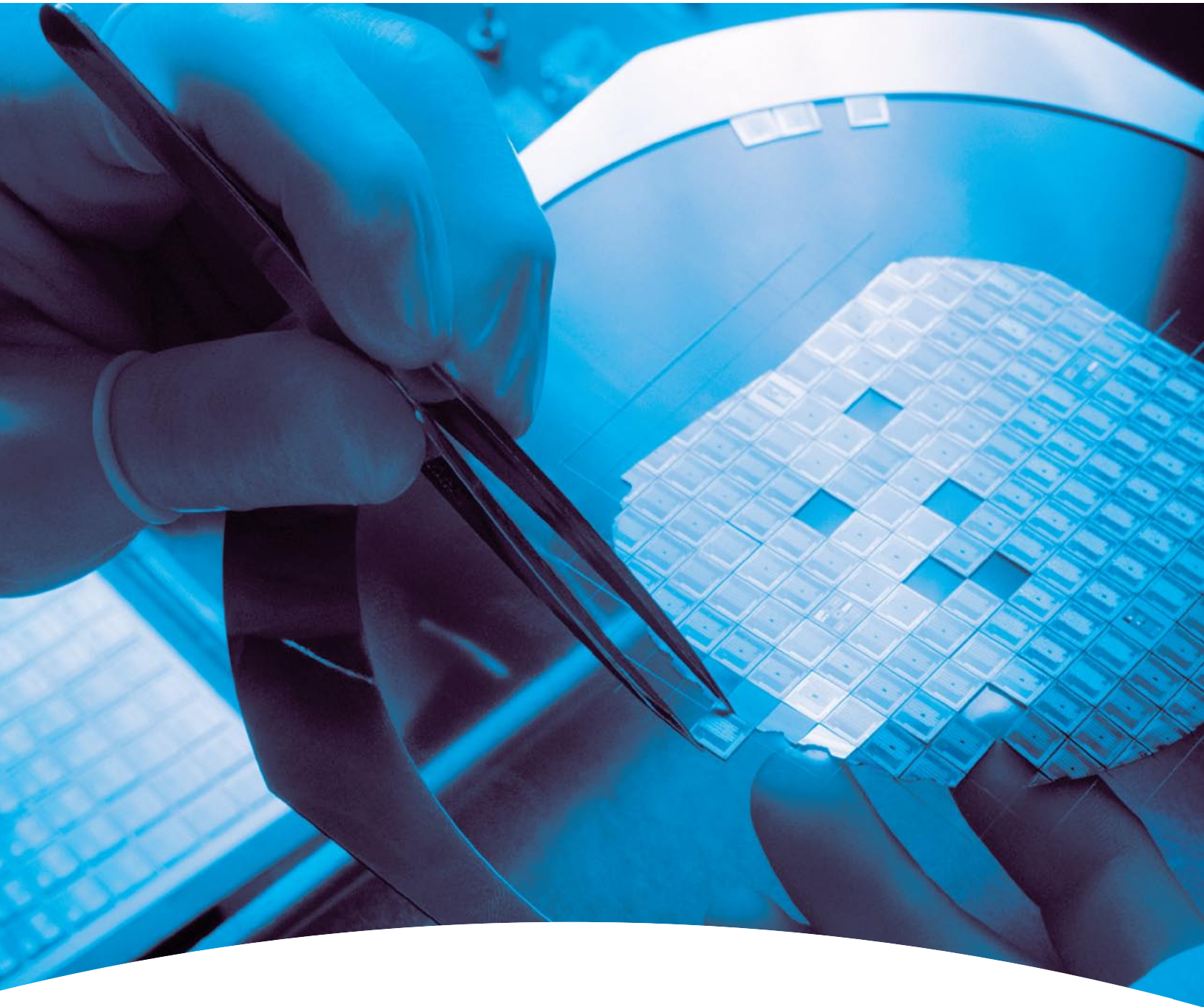


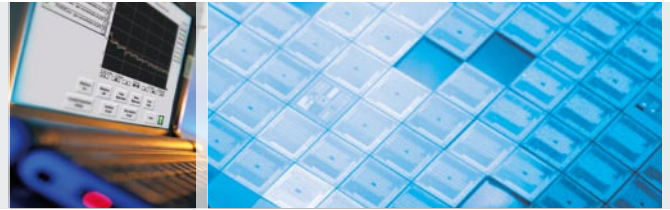
# MDA Scientific Multi-Point Toxic Gas Monitoring System

**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.

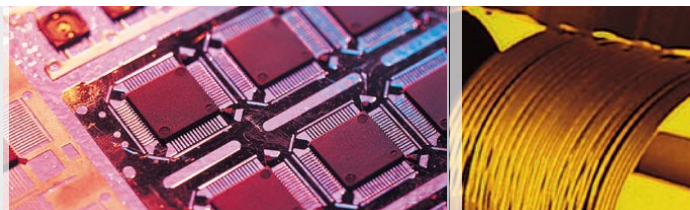
### Reliable

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

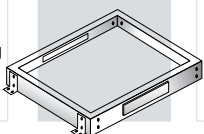
### Detect More Than 40 Toxic Gases

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

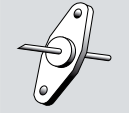
|                             |                           |   |
|-----------------------------|---------------------------|---|
| ACT935 Photoresist Stripper | Germane                   | Phosphorous Trifluoride                     |
| Ammonia                     | Hexachlorodisilane        | Silane                                      |
| 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

Vulcain-brand gas detection from stand-alone 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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## 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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[gasdetection@honeywell.com](mailto:gasdetection@honeywell.com)

## 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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