Vertex M

Honeywell

An 8 to 24 point toxic gas monitoring system, Vertex M with Chemcassette® technology offers the most reliable protection at the lowest overall cost.

Honeywell Analytics Multi-Point Toxic Gas Monitoring System

Technical Information

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 M smaller footprint and greater density of points reduce your cost per point
- Eight points per analyzer lowers Chemcassette® costs
- Maximized 24 point systems provide low cost per point as compared to other continuous monitors
- One system monitors up to three gas families and more than 40 gases
- You can split your sample to more than one analyzer

Easy to maintain

- Vertex M 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
- One-touch 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 64 relay contacts non-isolated; 32 isolated
- 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 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 visualization of the monitor screens at a remote PC

Vertex M is the industry's most flexible, advanced toxic gas monitoring system offering parts per billion detection levels and physical evidence of a gas leak. Vertex M ensures productivity as well as life safety.

Flexible

The Vertex M System includes as standard one eight-point analyzer. As your monitoring needs change, Vertex M expands, offering you up to 24 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. (Note: If Vertex M is used with one pyrolyzer module, the maximum number of points of detection is 16.)

Reliable

Vertex M 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)
- Automated leak test with line integrity option

Industries Served

High Tech Applications

- Semiconductor Manufacturing
- Photovoltaic Manufacturing
- Flat Panel Display Manufacturing
- LED Manufacturing
- Nanotechnology
- Research Labs
- Government/Aerospace/Homeland Defense
- Environmental Air Quality

Industrial Applications

- Specialty Chemicals
- Inorganic Chemicals
- Plastics and Fibers
- Agricultural
- Perimeter Monitoring
- Food Processing/Cold Storage
- Wastewater Treatment
- Pulp and Paper
- Power Generation
- Printing

Continuous monitoring

Detect More Than 40 Toxic Gases
Vertex M monitors virtually every gas used in fabs and other High-Tech/Industrial facilities, including:

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

NOTE: NEW CALIBRATIONS ARE CONTINUALLY DEVELOPED AT OUR PLANT. IF YOU HAVE A GAS NOT LISTED HERE, CONTACT YOUR REGIIONAL SALES REP OR CALL 1-800-538-0363.

Accessories

The Vertex M offers a variety of accessories to meet your site requirements.

Analyzer Options

- **Chemcam:** a camera located in the analyzer which enables viewing of the stain on the display.
- **Line Integrity Kit:** automatic integrity check for line pressure

Communications Options

- Configurable for LonWorks, DeviceNet, Profibus, ControlNet, Modbus Plus, DF1 interface, isolated 4-20mA outputs, 8-Channel isolated relay, 16-channel non-isolated relay, Ethernet, OPC. and others

Installation/Operational Options

- Floor Mounting
- Duct Sampling
- Tubing

Find out how Vertex M pays off big on your investment.

Call **1-800-538-0363**
visit **vertexmbyhoneywell.com**

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

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

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

Find out more

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Honeywell

17560308

H_Vertex_M_V2 US 2/09

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