

Ribble Enviro
...everything gas detection

Data Sheet

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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 REGIONAL 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