



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 Chemicasstest[®] 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 Chemicasstest[®] 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 X² Chemicasstest[®], providing up to three months of continuous monitoring
- Simplified replacement of Chemicasstest[®] 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
- On-screen 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/CP, LonWorks[®], DeviceNet[™], DFI Interface, PROFIBUS, Modbus Plus, Modbus/CP, 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 analyzer analyzers. (Note: If Vertex M is used with one analyzer 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
- Chemicasstest[®] 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 labs and other high-tech/industrial facilities, including:

ACT835 Probest Stripper	Dimethylamine	Nitric Acid	Stone
Ammonia	Dimethylsilane	Nitrogen Dioxide	Sulfur Tetrafluoride
Arsenic Pentfluoride	Dioxane	Nitrogen Trifluoride	Terbuthyl Arsenic
Arsenic Trichloride	Dry Arsenic	Phenyl Trichlorosilane	Terbuthyl Phosphine
Aspirine	Fluorine	Phosgene	Tertiarybutylamine
Boron Trichloride	Germane	Phosphine	Tertiarybutylphosphine
Boron Trifluoride	Hexachlorosilane	Phosgene - H Range	Tetrachlorosilane
Carbonyl Fluoride	Hydrogen Bromide	Phosphorus Dicychloride	Tetraakis (dimethylamino) titanium
Chlorine	Hydrogen Chloride	Phosphorus Pentachloride	Tin Tetrachloride
Chlorine Dioxide	Hydrogen Chloride,LL	Phosphorus Pentachloride	Titanium Tetrachloride
Chlorine Trifluoride	Hydrogen Cyanide	Phosphorus Trichloride	Trichlorosilane
Cupra Select	Hydrogen Fluoride	Phosphorus Trichloride	Trimethylsilane
Diborane	Hydrogen Iodide	Silane	Tungsten Hexafluoride
Dichlorosilane	Hydrogen Selenide	Silane Low Level	Xenon Difluoride
Digermene	Hydrogen Sulfide	Silicon Tetrachloride	
	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, DFI 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