

Hazardous Gas Monitoring

System Integration

Software Development

SCADA Development

RFID Applications

Gas Monitoring

Consulting

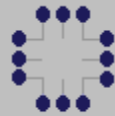
Ozone Integration

Custom Control Panels

Lighting Panels

Sheet Resistance Meter

Custom Vacuum System



GUARDIAN
Manufacturing

"We Design Solutions for All of Your Industrial Control and Automation Requirements".

Hazardous Gas Monitoring

Measurements provide by Mass Spectrometers

Up to 40 Sample Ports with Filtering and Flow Control

Redundant Hardware provided for all 40 ports including vacuum system.

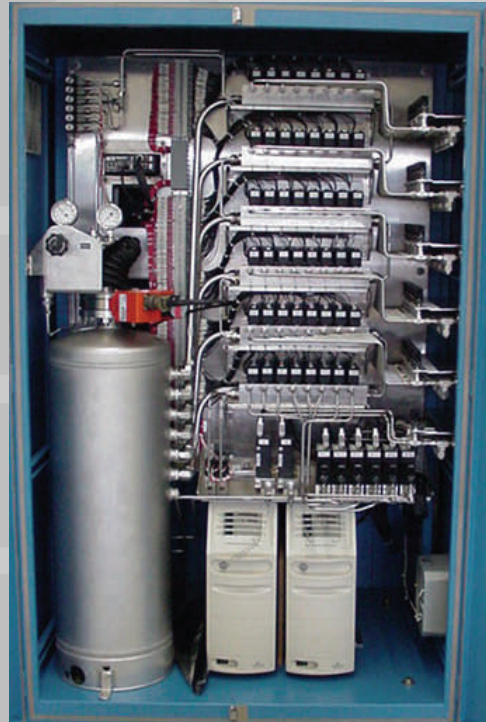
Automatic switch over to redundant hardware

Automatic Calibration and Self Test

Remote Measurement and Control via any OPC Server. Ideal for use with any SCADA Platform.

Local Control provided by Panel Mount PC

The Hazardous Gas Monitor (HGM) provides a fast, accurate analysis of gas compositions from a distributed network of sample ports and can be customized to meet various specifications from specific gas to a multi-purpose gas detection system.



The HGM couples two Stanford Technologies QMS Mass Spectrometers with an extremely robust sampling design to provide accurate gas analysis for up to 40 sampling ports using one central analysis system.



COMPLETE PROCESS



Redundancy is provided for each sample inlet via solenoid manifolds.

Flow control and Filtering is provided for each port allowing consistent flows for differing tube lengths from a single vacuum source.

Each sampling port is continuously flowing, via 'Roughing Ports', providing a fresh sample for analysis at any time.

Over Five Years of Proven Reliability in the Aero-space Industry.

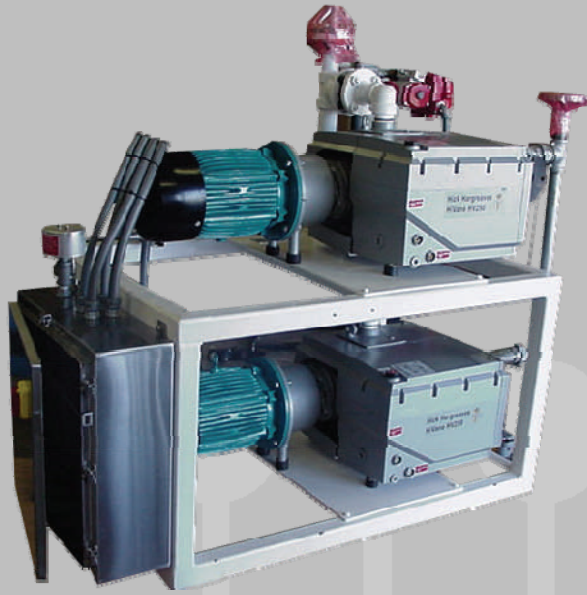
Analysis of:

- Oxygen
- Helium
- Nitrogen
- Argon
- Hydrazine
- Methane
- Oxides of Nitrogen (NOx)
- ...and more

Other uses:

- Leak Detection
- Commodity Monitoring (N₂, He)

Guardian's Engineering Staff will customize the solution to meet all your needs

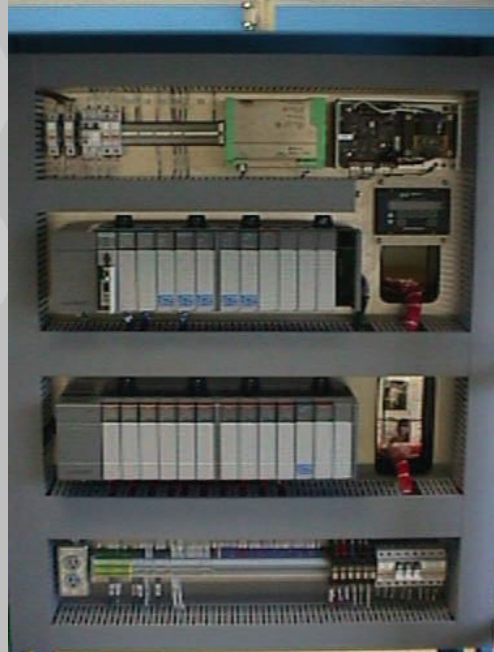


Vacuum System

Dual Vacuum pumps can be operated in a redundant or tandem scenario.

Vacuum regulation is provided by a throttle valve, vacuum manifold, nitrogen bleed valve, and capacitance pressure transducer to obtain closed loop control; which is vital for accurate measurements.

Each vacuum system is sized for your particular application. This system can also be located away for the control system if required (due to noise, etc...)



Control System

Process Control is provided via local PC utilizing a PLC for I/O control, while performing all analytical computations, communications, and other functions.

Seamless communication integration for remote monitor and control. Complete control can be obtained remotely, as well as, locally.

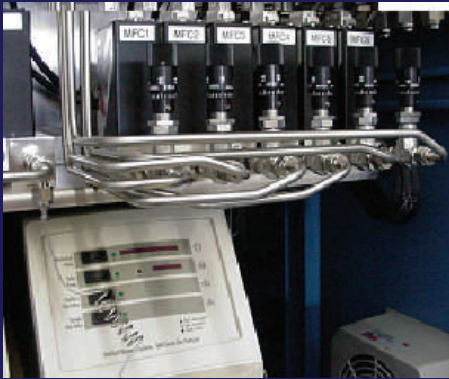
Scanning or Dwelling options are given for gas analysis; where recipes provide the order of sample inlets to analyze and when.

User Configurable System:

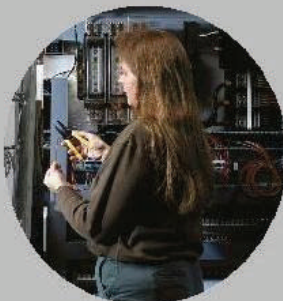
- Create/Edit Recipes
- View Historical Alarms
- Store Data (ODBC Database)
- User Security for Operation

Calibration and Self Test

Event log and Alarming. Automatic machine safe condition is performed under any critical alarm.



DELTA LAUNCH FACILITY



Guardian's Quality Program reflects a high level of commitment for designing, fabrication and installing products that meet and exceed your project requirements. GMI has demonstrated its level of quality to demanding customers such as Aerospace, Defense Contractors, Florida's Theme Parks along with many Fortune 500 Companies. Our Quality Pledge is indicative of each employee's commitment to providing you with the best possible solutions.

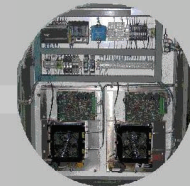
LET GUARDIAN'S highly motivated competent staff of project managers, engineers, technical writers and fabricators assist you in your next project. Our track record speaks for itself: Quality products with on time deliveries, fast turn around and responsive service. We guarantee 100% customer satisfaction backed by a demonstrated track record in the industry.



UL Certifications

UL508A Industrial Controls Panel

UL1008 Transfer Switch Panels



UL924 Emergency Lighting Panels

UL1419 Audio and Video Panels

UL1492 Custom Audio and Video Products

1449 Transient Voltage Surge Suppressors



UL1283 Electromagnetic Interference Filters



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