Программное обеспечение для системы газоанализа

FabGuard® Explorer

Gas Analysis Software

RGA Control Software —
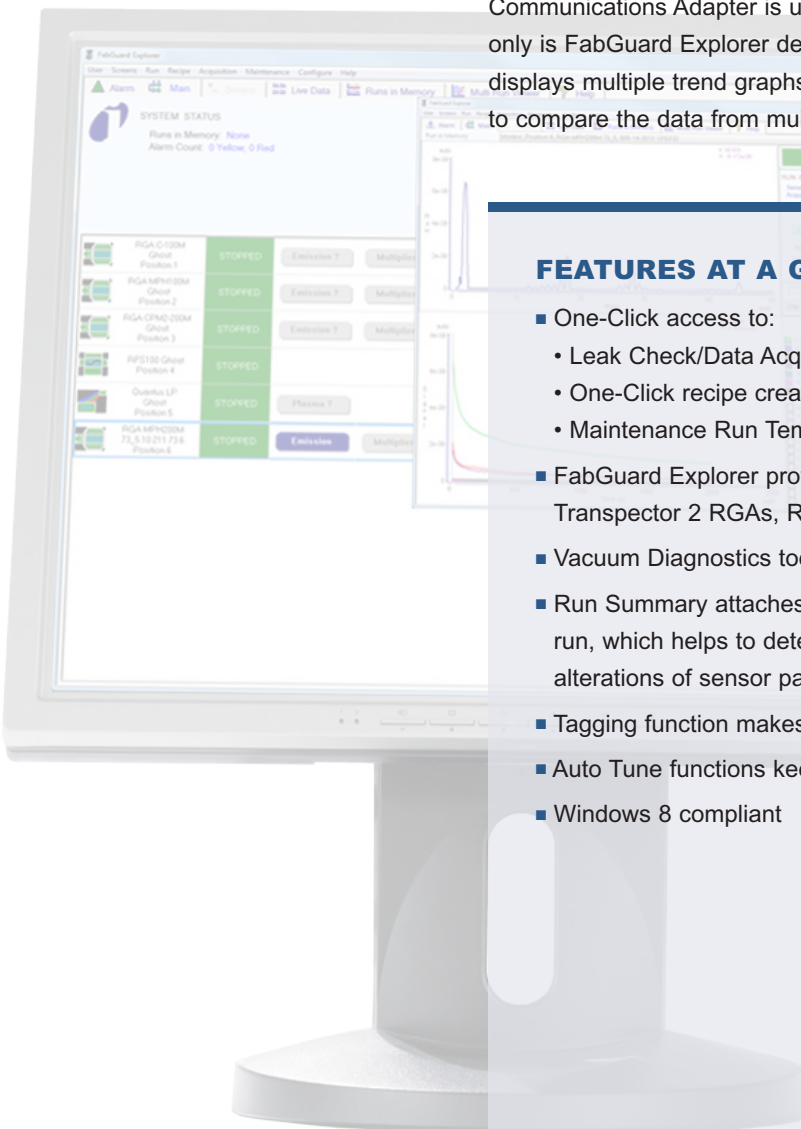# Easy-to-Use, Yet Surprisingly Powerful

With one-click access to the two most popular RGA functions: monitor and leak check modes, FabGuard Explorer provides you with easy to interpret data showing the most frequently monitored gases (hydrogen, water vapor, nitrogen, oxygen, argon, etc.) in a convenient trend display.
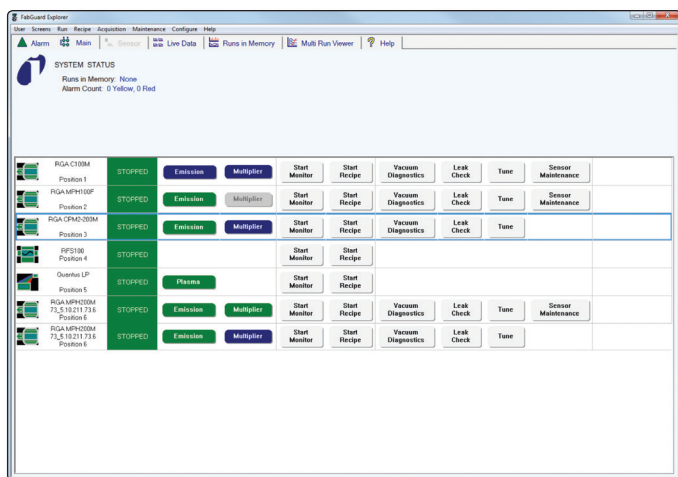
FabGuard Explorer is Windows® 8 ready, providing comprehensive RGA software with no concerns about operating system compatibility.

The single-sensor version of FabGuard Explorer is a cost-effective solution to operating one Transpector® RGA. With the software's multi-sensor version, you can control multiple, different types of Transpector RGAs from a single computer. FabGuard Explorer allows for control of both Transpector MPH and Transpector 2 RGAs from the same software. For connecting multiple Transpector MPH sensors, INFICON offers routers and network switches, while the TCA485 Transpector Communications Adapter is used for networking multiple Transpector 2 sensors. Not only is FabGuard Explorer designed to control all your sensors, it also simultaneously displays multiple trend graphs using the Live Data tab of the software, allowing you to compare the data from multiple sensors on the fly.

FEATURES AT A GLANCE

- One-Click access to:
  - Leak Check/Data Acquisition/Vacuum Diagnostics
  - One-Click recipe creation
  - Maintenance Run Templates

- FabGuard Explorer provides multi-sensor support: Transpector MPH RGAs, Transpector 2 RGAs, RFS100 RF Sensors, and the Quantus Gas Analyzer

- Vacuum Diagnostics tool quickly identifies gas species in the vacuum system

- Run Summary attaches full sensor and data acquisition information to each run, which helps to determine whether data abnormalities are caused by alterations of sensor parameters

- Tagging function makes high-level process visualization easy

- Auto Tune functions keep the sensor in working order
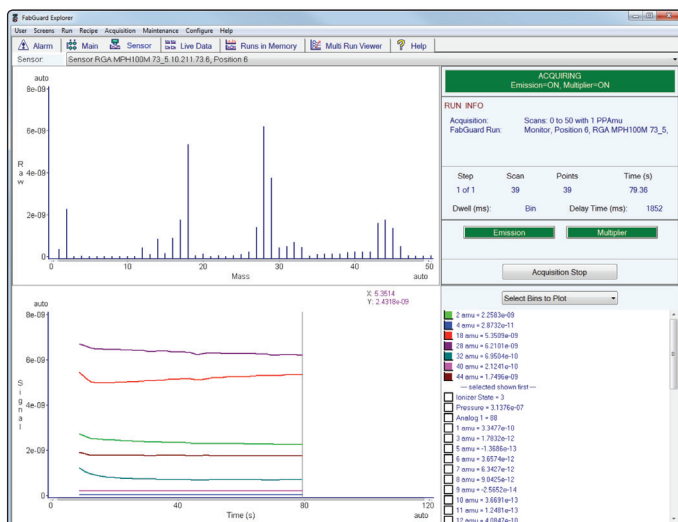
- Windows 8 compliant

The New FabGuard Explorer Main Screen

ONE CLICK FUNCTIONS
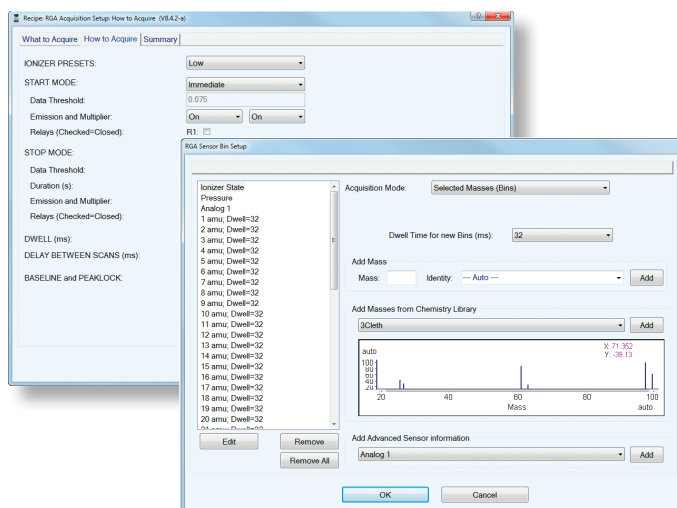
Monitor Mode

The new user-friendly GUI of FabGuard Explorer puts single click access to Monitor Mode on the main screen for each sensor. Monitor Mode is preconfigured to collect data from 0 to 50 amu with one point per amu (ppamu) and display both a bar graph and a trend graph, which showcases the levels of hydrogen, helium, water vapor, oxygen, nitrogen, argon and carbon dioxide.

Is the gas you want to monitor not included on the trend graph by default? FabGuard Explorer allows any captured amu to be displayed on the Trend Graph by a simple box selection.

The FabGuard Explorer Data Acquisition Screen

Want to change the way that FabGuard Explorer collects data? FabGuard Explorer has significantly simplified the setting of data acquisition defaults. The new What to Acquire (which controls the masses used for data acquisition) and How to Acquire (which controls data acquisition parameters) menus simplify the process allowing novice users full control of their data acquisition.

Recipe Creation in FabGuard Explorer

Having trouble finding out what gases might be present in a process? FabGuard Explorer offers a Chemistry Library function which allows you to overlay the spectra of up to five different gases in varying relative amounts onto your RGA spectrum. After determining the gases present in a process, FabGuard Explorer allows you to generate scan parameters based on the identified gases.
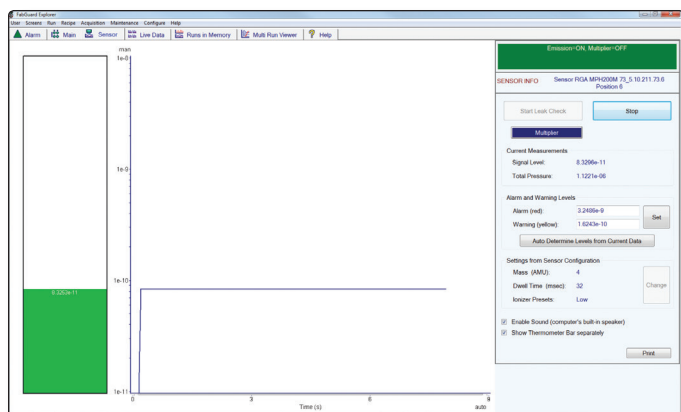
MAINTENANCE

FabGuard Explorer allows for one-click access to common maintenance functions directly on the main screen of the software. This unique feature provides simple access to maintenance functions normally hidden inside other software packages.

PROCESS EQUIPMENT MAINTENANCE

Leak Check

A traditional RGA application is to Leak Check a vacuum system using helium gas. FabGuard Explorer provides an intuitive, simple Leak Check process that is available from the main menu with just the click of a button. The audible alarms make it easy to determine the status of the Leak Check process even when the vacuum system is a large distance from the computer system running the software.
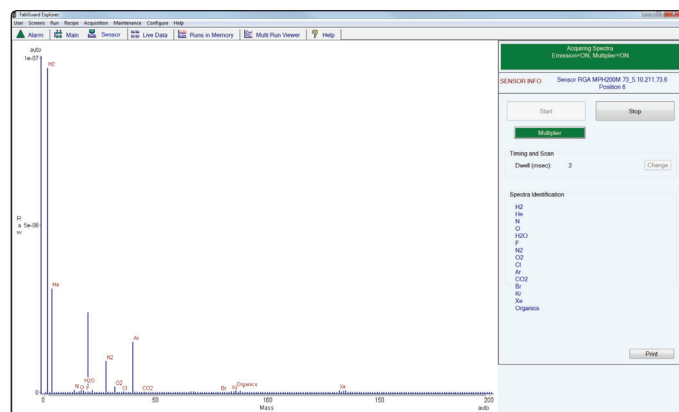
FabGuard Explorer can monitor any mass for leak checking, eliminating the need for costly pure helium gas.

FabGuard Explorer Leak Check Mode

Sensor Maintenance

FabGuard Explorer provides easy-to-use maintenance functions that will keep an RGA properly tuned and ready for use. Sensor maintenance helps to ensure that data received from the RGA is an accurate representation of your application.

FabGuard Explorer Vacuum Diagnostics Mode

Vacuum Diagnostics

With just the click of a button, FabGuard Explorer is capable of providing an easy-to-read spectrum defining all of the gas species present inside your vacuum system. This new Vacuum Diagnostics tool clearly informs you of any impurities present and even defines their identity without the need of difficult qualitative visual analysis.

Tune Mode

Tuning your RGA sensors is an integral process for achieving accurate data with the instrument. Tune modes in other software packages can be quite difficult, leaving many RGAs untuned. FabGuard Explorer introduces a new, automatic tuning method, where FabGuard Explorer will automatically tune the sensor to the proper peak size and location using existing chamber gases or an optional calibration reference.

Calibration

FabGuard Explorer allows for easy, intuitive RGA calibration of Total Pressure, Electron Multiplier (if installed) and Sensitivity. Routinely performing these calibrations will increase the quality of quantitative analysis of your RGA data, providing more accurate gas concentration results.

GETTING EVEN MORE OUT OF FABGUARD

FabGuard Explorer is part of the FabGuard Suite of products that provides users the most popular RGA functions—process monitoring, leak detection and recipe controlled operation—in easy-to-use one-click functionality. As data gathering, sensor integration, and analysis needs grow, FabGuard Explorer can be upgraded to FabGuard Sensor Controller for advanced real-time fault detection and tool based expert systems. If a centralized database with tool and group-based SPC analysis are required, then FabGuard Explorer can be easily upgraded to FabGuard IPM. With the addition of a SQL or Oracle Database and INFICON's sensor integration expertise, FabGuard IPM greatly increases process understanding and fault detection capabilities. When upgrading to any of the FabGuard Suite of products, users benefit from a familiar interface which allows for rapid deployment with minimal additional training.

SPECIFICATIONS

Supported Sensors	Transpector MPH
	Transpector 2 Family of RGAs (Firmware ≥2.13)
	RFS100 RF Sensor
	Quantus
Communications Interface	For Transpector MPH: Ethernet
	For Transpector 2 RGAs: RS232 or RS485 via TCA485
	For RFS100: RS232
	For Quantus: USB
Communications Baud Rate	RS232 – User Selectable (4800 or 9600 (default))
	RS485 – 57,600
Maximum Communications Cable Length	RS232 – 30.5 m (100 ft.)
	RS485 – 305 m (1,000 ft.)
	Ethernet – No Restriction

SUGGESTED COMPUTER SYSTEM REQUIREMENTS

Processor	2.4+ GHz Dual Core
RAM	2+ GB (4 GB Recommended)
Hard Disk Space	80+ GB, 7200+ RPM
Monitor Resolution	1024 x 768 16 Bit Color or Greater
Ports	One 10/100 Base-T Ethernet Port (Transpector MPH)
	One RS232 port for Single or Multi with TCA485 (Transpector 2 RGAs)
	One RS232 port (RFS100)
	One USB 2.0 port (Quantus)
Operating System	Windows: XP, 7 or 8

ORDERING INFORMATION

FabGuard Explorer – Single Sensor Version – CD	921-039-G1
FabGuard Explorer – Multi Sensor Version – CD	921-039-G2
FabGuard Explorer – Single Sensor Upgrade – CD	921-039-G3
FabGuard Explorer – Multi Sensor Upgrade – CD	921-039-G4
Transpector MPH Accessories:	
Ethernet Router 4 Port with Push Button WiFi	961-417-G1
Ethernet Switch 8 Port	961-418-G1
Transpector 2 Accessories:	
TCA485 Communications Kit – US Version	916-600-G2
TCA485 Communications Kit – German Version	916-600-G3
TCA485 Communications Kit – Japan Version	916-600-G4
TCA485 Communications Kit – UK Version	916-600-G5
USB to RS-232 Converter	911-451-P1
FabGuard Explorer User Guide	074-528