What does the SRS Universal Gas Analyzer do?

The Universal Gas Analyzer (UGA) characterizes the components of a gas mixture which is at, or below, atmospheric pressure. The UGA can identify the different constituent molecular species in the gas, their relative abundances and track this information in real time. All in a stand alone, easy to use, portable unit connected via ethernet LAN to a computer.

The UGA samples your gas using a long thin capillary allowing only a very small amount of the gas into the unit. The pressure is further reduced by pumping through a pinhole until a near vacuum is achieved. A quadrupole mass spectrometer then analyzes the sample providing partial pressure vs mass data. Each mass corresponds to a particular gas molecule such as carbon monoxide, methane, water vapor, etc. Molecules up to 300 amu can be detected.

The UGA provides you with the composition of your gas as well as its real time behavior - which components are increasing or decreasing? or when does a certain contaminant appear or disappear? The included software provides multiple graph displays as well as tables and monitor/alarm views.


Applications include
- Petrochemical processing and exploration
- Hydrogen fuel research
- Alternative energy technologies and production
- Manufacturing process control
- Fermentation monitoring
- Environmental controls
- Atmospheric chemistry
- and much more

Using the SRS UGA

Informative Front Panel
The UGA front panel provides visual feedback about the state of the instrument. A quick glance at the system schematic shows which components are currently active. Each component can also be controlled from the schematic panel. All operations are performed in a failsafe manner - the UGA constantly monitors all internal pressures and components for reliability and lifetime.
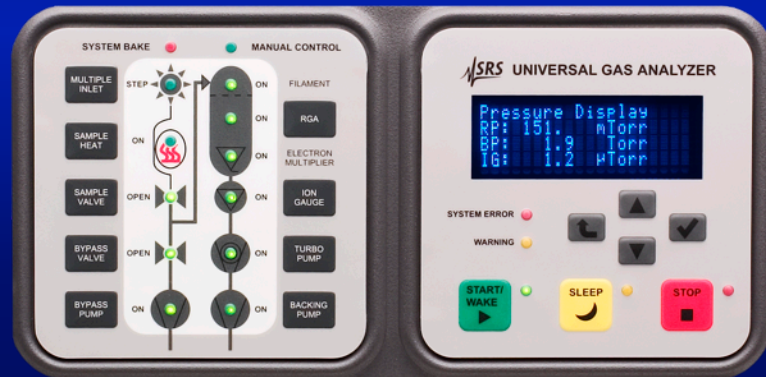
Free UGA Software
The Windows software controls the UGA and collects data from the analyzer. A control panel provides the same functionality as the front panel while a data window displays the data in either graph or table form. Data can also be logged to files for further analysis. Every control event and status change is also recorded in a log file for easy troubleshooting.
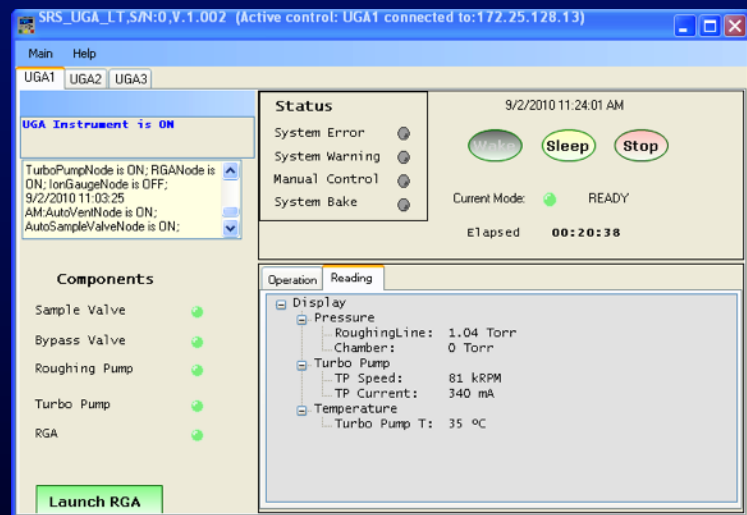
Multiple UGA Units
The UGA connects via ethernet directly to your computer or to your network. This allows the UGA to be remotely located from your computer. The software supports multiple UGA units at once so an entire facility can be monitored, in real time, from a single central computer. The software also connects to SRS RGA heads via the RGA Ethernet Adapter.

Your science. Our tools. SRS
www.thinksrs.com/products/UGA.htm