

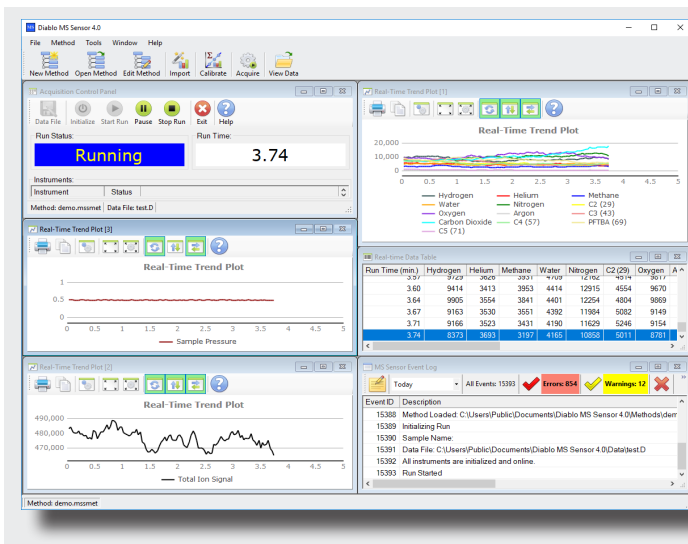


# Diablo Analytical, Inc.

## A Technology and Development Company

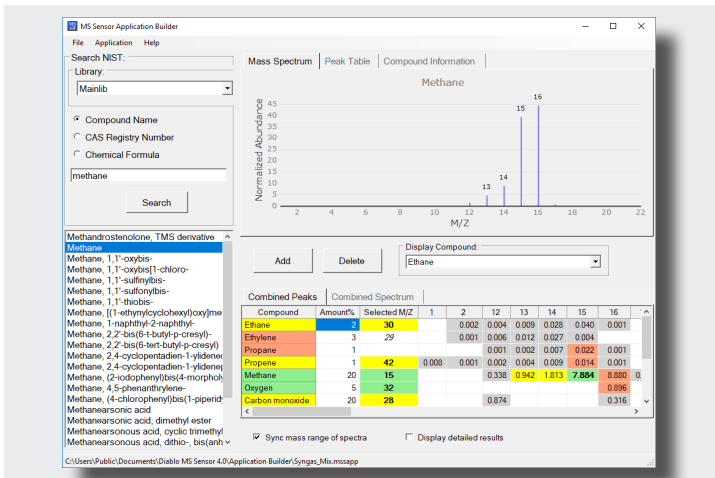
## The MS Sensor 4.0 Process Analysis Software

The MS Sensor 4.0 software enables simple, yet flexible acquisition and display of real-time process data using the Agilent Technologies 5977 MSD and other instruments and sensors including the MKS PDR2000 pressure controller. The Diablo 5000B Real-Time Gas Analyzer (RTGA) combines the MS Sensor software with an Agilent Technologies 5977 MSD and a high-performance, differentially-pumped direct sampling interface to perform fast, real-time chemical analysis.



### New - MS Sensor Application Builder

The MS Sensor Application Builder software uses the NIST Mass Spectral Library of 267,376 chemical compounds and your estimates of compound concentration to help you evaluate your application and quickly create methods for MS Sensor 4.0 acquisition.

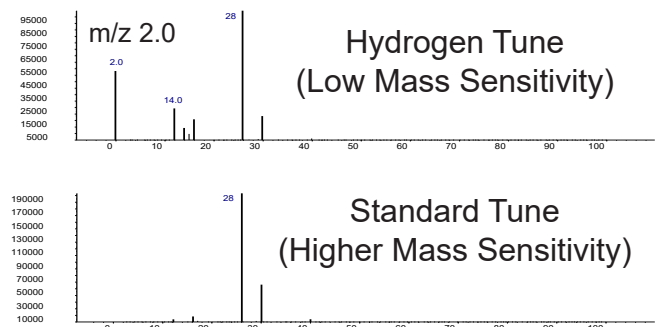


## MS Sensor 4.0 Software Features

- Enables Mass Spectrometers controlled by the Agilent Technologies MassHunter GC/MS data system to be used for continuous process analysis.
- The software architecture allows real-time data to be acquired from multiple kinds of instruments and sensors.
- User-defined formulas can be defined and applied to instrument signal data in real time. This allows ratio, normalization, and other calculations to be performed and displayed in real time.
- A linear calibration function can easily be generated for Signals.
- Up to 6 trend-plot windows can be used to display graphical results in real time.
- A real-time data grid displays numeric results in real time.
- Results can be exported to comma-delimited (CSV) text files that can be easily imported into spreadsheets and other data analysis or modeling applications.

### New - Fast Alternating Scan Acquisition

The MS Sensor MassHunter instrument driver now has an alternating-scan capability that allows mass spectra to be acquired during the same run with different tune files, SIM+Scan mode, different detector voltages, etc.



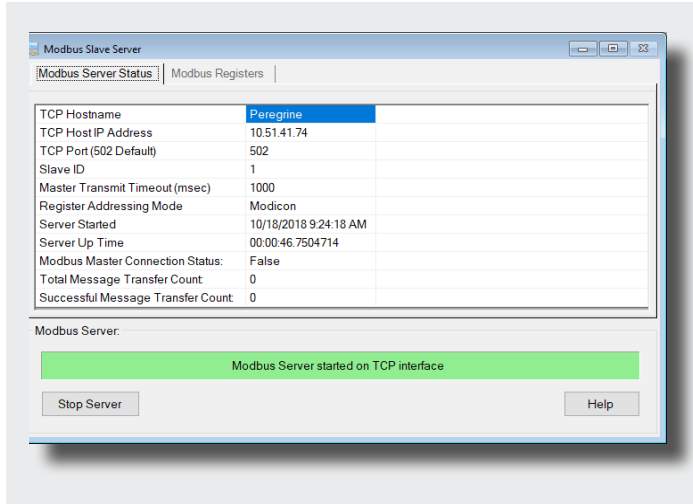


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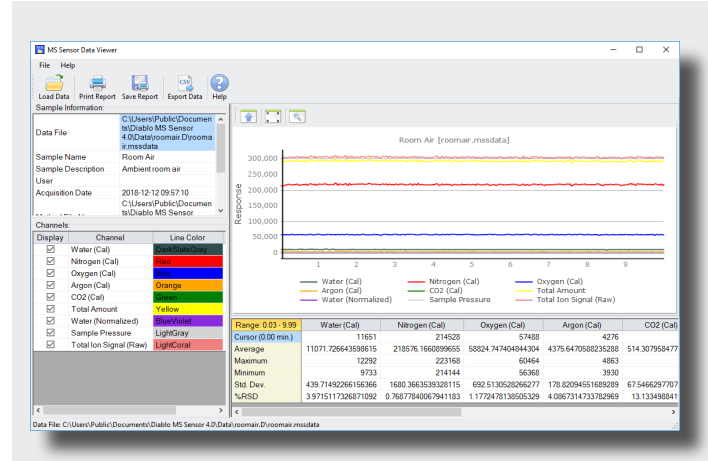
### New - Modbus Slave Server

The MS Sensor Modbus TCP Slave Server communicates Data Channel results in real time with industrial automation computers and programmable logic controllers.



### New - MS Sensor Data Viewer

The MS Sensor Data Viewer program can open MS Sensor data files and allow you to view and evaluate data channel results during or after the run.

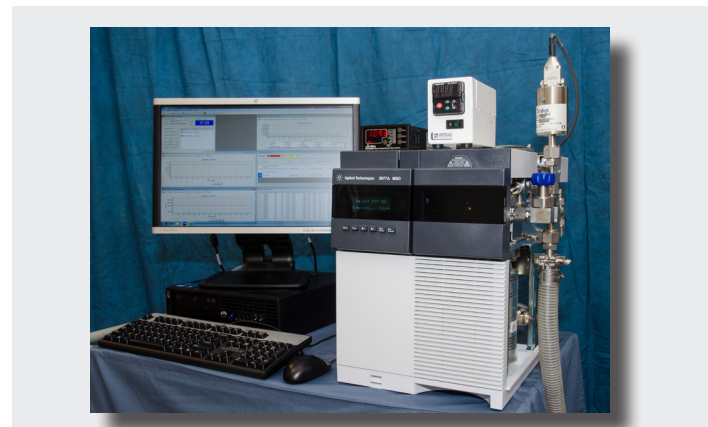


### Additional New Capabilities of MS Sensor 4.0

- Results are saved to a SQLite database data file allowing results to be read in real-time during a run.
- New signal calibration functionality incorporates pressure compensation calculations, and simplifies calibrations. Signals can be calibrated during a run.
- The Agilent MassHunter instrument driver now includes an option for a Helium optimization tune in addition to the Hydrogen optimization tune.
- Data Channel results can now be calculated and displayed as the current result, the average of "n" consecutive results, or the moving average of the last "n" results.
- Trend plot line colors and plot titles can now be customized. Data Channels can be assigned to different plot windows during the run.

### Diablo 5000B Real-Time Gas Analyzer

The Diablo 5000B Real-Time Gas Analyzer (RTGA) combines the MS Sensor software with an Agilent Technologies 5977 MSD and a high-performance, differentially-pumped direct sampling interface. The Real-Time Gas Analyzer is a real-time chemical measurement tool for continuous process improvements. It is ideal for applications where fast analysis is required, such as monitoring for transients in continuous reactions. The Diablo RTGA can be used for fuel cell gas analysis, syngas monitoring and many other applications.



**Contact us to learn more about the MS Sensor 4.0 Software and Diablo 5000B Real-Time Gas Analyzer.**



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