



(Screenshot from ECLIPSE v12)

## Applied Analytics' proprietary analysis software platform.

ECLIPSE is the runtime software preinstalled on the majority of Applied Analytics analyzers. This software provides a visual interface for the user to interpret data and modify system settings.

### Features

- » Displays all active measurements on the home screen
- » Contains powerful multi-component analysis algorithm for synchronous measurement of up to 5 analytes
- » Allows user to easily modify trendgraph timescale, alarm settings, data logging settings, reading display format, more
- » Provides seamlessly unified interface for integrated systems; tabbed readings for multiplexed systems
- » Operates relays to automate tasks such as Auto Zero, Auto Span, alarms, and self-maintenance procedures
- » Includes pressure/temperature compensation utility

# ECLIPSE™ Software

Applied Analytics DS-203A — Revised 18 December 2018

## Auto Zero

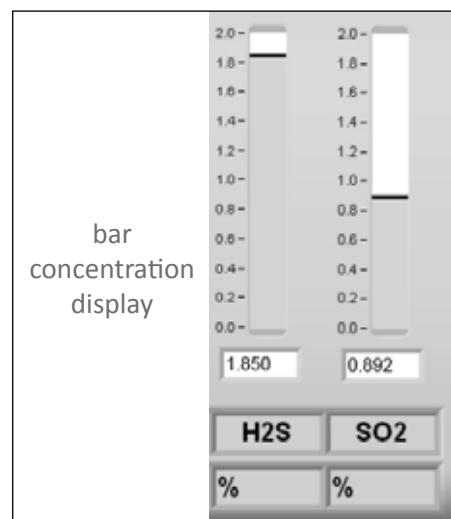
Zeroing is a software task which measures the light source emission spectrum when a zero-absorbance fluid is in the flow cell. Any difference in light intensity from this “baseline” while running on process sample will be measured as absorbance. This serves to normalize the detector reading and stabilize accuracy such that re-calibration is never required.



As shown in the image above, the Auto Zero default setting is to “AutoAccept” the new zero if it meets noise criteria. When scheduling is in effect, this Auto Zero utility will automatically run at set intervals and stabilize system accuracy.

## Various Display Formats

	Output	Method	Output comp	Output Concentration	
strip concentration display	1	1	H2S	0.890	%
	2	1	SO2	1.852	%

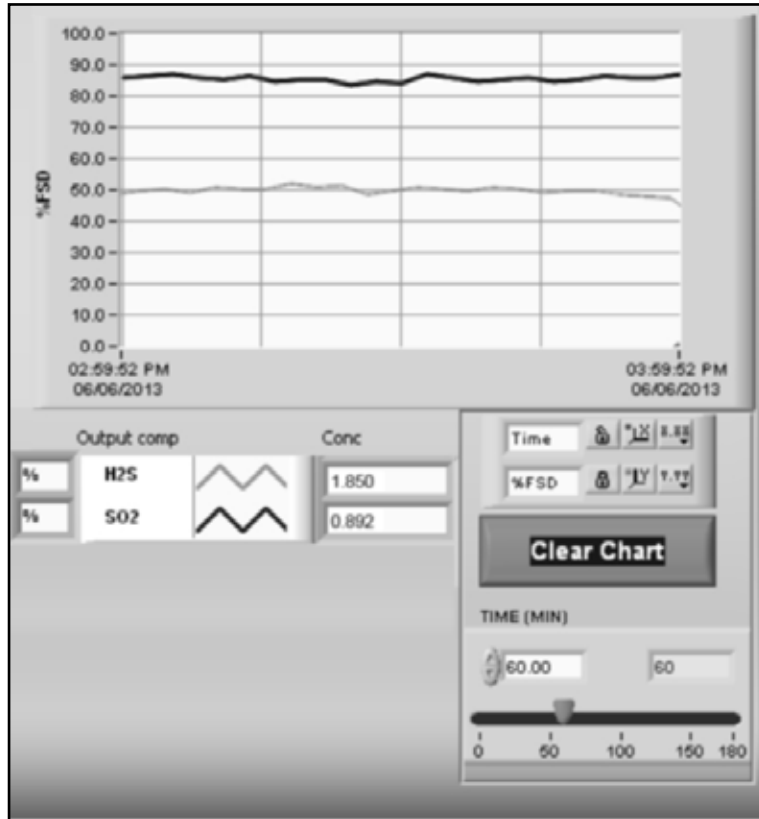


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## Customizable Trendgraph

The ECLIPSE trendgraph tool continually plots the value for each measured analyte against time (x-axis). The y-axis represents the % full scale for each measurement, thus normalizing each line within one graph in order to simultaneously observe trends in all measured analytes simultaneously.



The timescale and axes can be adjusted easily at any time through the visual interface.

## Simple Analog Output Setup

ECLIPSE allows you to modify the analog outputs to the DCS at any time by entering the value range that the signal represents:

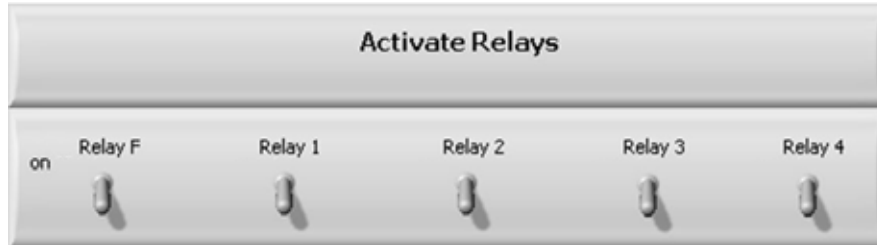
Analog output				
		MIN	MAX	
mA scale		4.0	20.0	
Output	Method	Comp	Min scale value	Max scale value
1	1	SO2	0.00	100.00
2	1	H2S	0.00	100.00
3	2	CS2	0.00	10.00
4	0		0.00	0.00
5	0		0.00	0.00

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## Virtual PLC

ECLIPSE software eliminates the need for any PLC knowledge by virtualizing this functionality in an intuitive visual interface. The system relays can easily be operated at a click:



Relay task sequences can be created easily by the user in order to automate tasks (e.g. switching the valves to flow zero fluid into the flow cell during an Auto Zero):



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## Further Reading

Information on ECLIPSE calibration theory:

[https://aai.solutions/documents/AA\\_TN-201\\_ACMs.pdf](https://aai.solutions/documents/AA_TN-201_ACMs.pdf)



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