GDP SPACE SYSTEMS

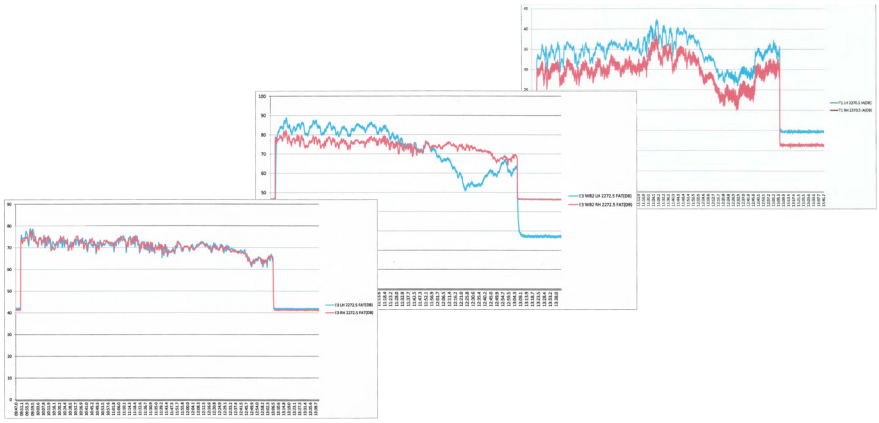
ACROAMATICS
TELEMETRY SYSTEMS

AGC Data Logging System
Model 2680P

Features:

- Monitors to 32 Telemetry Receiver AGC or similar analog inputs
- Easy to use GUI Set-up and Operations Interface
- Time Annotated Log file, Excel Compatible File Format
- Quick Visualization of System Performance and monitored device AGC status
- 400k S/Sec Composite sampling Rate @ 16-Bit
- Selectable Log File Scan Interval, Displayed in Volts or DBm

General Description



The Model 2680P AGC Data Logger is a stand-alone telemetry data acquisition receiver performance monitoring unit that records and displays time tagged voltage samples to a log file. The 2680P is configured to input, sample, display, and log to disk time tagged analog voltages from up to thirty-two analog sources, such as telemetry receiver AGC monitor outputs. A Blue-Ray/DVD/CD R/W drive is provided for creating permanent exportable MS Excel compatible archived of mission logging results.

Input source voltages are sampled using a high performance multi-channel DAQ card, with operator programmable A to D sample rates. System hardware consists of rack mountable interface panels, 1u rackmount host controller enclosure, 1u keyboard/monitor drawer, and all requried system interconnecting cables. System software includes Microsoft Excel 2013 and purpose designed Acroamatics GUI Set-up and Operations software.

The system is programmable to support up to 32 channels, each with unique user assigned name, at rates of up to 10 scans per second. Each scan produces a log entry annotated by time read from the PC's system clock or optional IRIG time code module. The 2680P GUI acquired log entries directly to an ASCII comma separated text file. A post-mission log file export function supports transfer of the loog entries from the CSV file to an Excel file, with capability to select a time windowed subset. The resulting .xls file can be written on the CD/DVD for distribution to range customers, or accessed over the network as a remote file.

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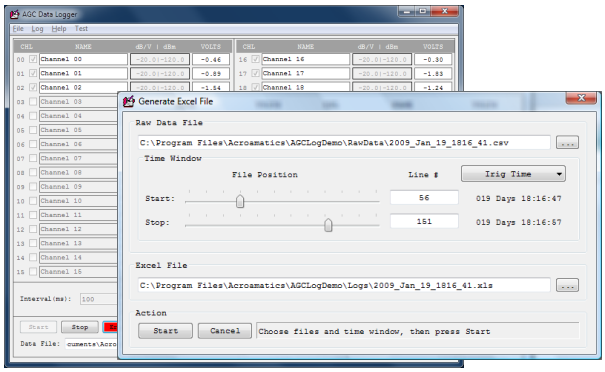
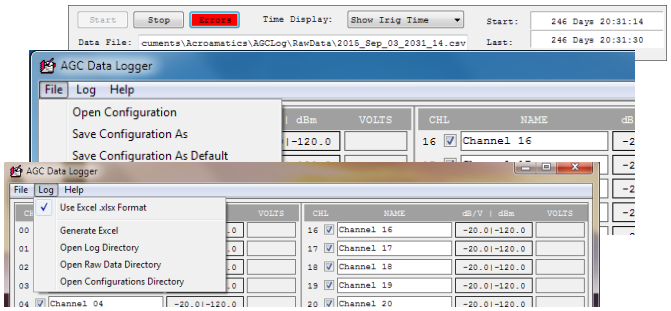
System Description

The Model 2680P AGC Data Logger provides users a convenient graphical operator interface that records time tagged voltage samples from a high performance DAO Device to a log file. Up to 32 named analog inputs can be logged at a rate configurable from 10 times per second to once every 10 minutes. System configurations may be stored and recalled as desired. Once per sample period, the 2680P writes the voltages to the log file along with a time stamp read from the PC's system clock. Data is time stamped with internal system time, or time read from an optional IRIG Time Code Reader/Generator card. At the end of acquisition, the logged data is copied to an Excel spreadsheet for easy viewing and analysis.





Input

Sources	To 32 AGC or Similar Analog channels, single-ended 75 / 50 Ohm
Sample Rate	to 400k S/sec Composite (User Selectable), 16-Bit Resolution
Voltage Range	+/- 10 V p-p

Operator Display

Status	Voltage level by channel, user selectable scan rate
Set-up	Channel ID Name Assignment, Scale (V or Dbm), Time Annotation, Scan Interval

Output

Format	Comma Delimited, Excel Compatible, channel ID, at Selectable Sample Rate & Scan Interval
Time	System Default or IRIG Time (via optional Translator/Generator

Physical

Sig I/O & Adapter	19.0" W X 1.75" H X 7.4" D (two each)
Kybd / Mon	19.0" W X 1.75" H X 24" D
System Chassis	19.0" W X 1.75" H X 24" D
Weight	Approx. 26 lbs., Total
Material / Finish	18 Gage Mild Steel / Powder Coat, Black
Power	115/230 VAC 6-50 Hz, 3A max
Humidity	Operating 20-90% Storage 20-95%
Temperature	Operating 0° to 60° C (32° to 140° F) Storage -40° to 85° C (-40° to 185° F)
Shock	Operational 6G, Non-Operational 50G
Vibration	Operating 0.5G, 5 to 2000 Hz, Non-Operating 1.2G to 600 Hz

Specifications subject to change without notification.

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