

Model 2680AP

AGC DATA LOGGING SYSTEM



ACROAMATICS
TELEMETRY SYSTEMS



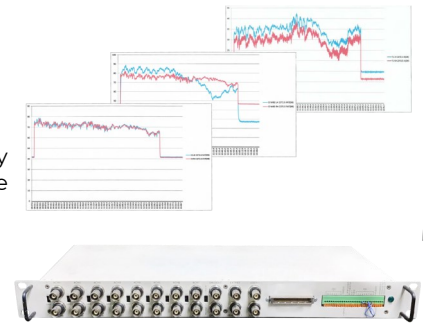
KEY FEATURES

- Monitors to 32 (-1) or 64 (-2) Telemetry Receiver AGC or Similar Analog Inputs
- Easy-to-use widget based ADAT GUI Set-up and Operations (Strip Charts)
- Time Annotated Log File Excel Compatible File Format
- Quick Visualization of System Performance and Monitored Device AGC status
- 1K/S Sample Rate Per Channel
- 32K S/Sec Sampling Rate for 32 Channels/ 64K S/Sec 64 CH Composite
- Selectable Log File Scan Interval to 1 ms (1,000 scans per sec), Displayed in Volts or DBm
- Optional PCM Serializer Output Encoder Function, to include:
 - Integral ADAT SCR Display
 - Analog Measurement PCM Recording, Playback, and Decommutation
- Supports +0.1V, +1V, +5V, or +10V SW Selectable
- MS Office for export to Excel (optional)

GENERAL DESCRIPTION

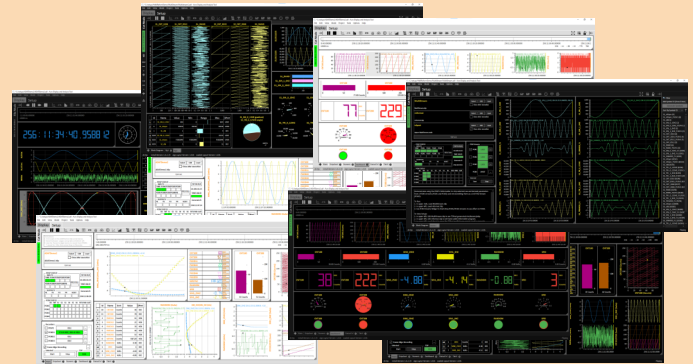
The Model 2680AP AGC Data Logger is a stand-alone telemetry data acquisition receiver performance monitoring unit that records and displays time tagged voltage samples to a log file, or optionally to an IRIG 106 Chapter 4 compliant serial PCM output stream. The 2680AP is configured to input, sample, display, and log to disk time tagged analog voltages from up to 64 analog sources, such as telemetry receiver AGC monitor outputs. The PCM encode option includes Acroamatics Display and Analysis Tool (ADAT) strip chart display and widget-based system set-up and operations interface. 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 (2u for 64 channel version) rackmount host controller enclosure, 1u keyboard/monitor drawer, and all required system interconnect cables. Windows 10 Pro TPM2/Bit Locker compliant System host controller software includes Acroamatics GUI Set-up and Operations software, and (optionally) Microsoft Excel and Acroamatics' Display and Analysis (ADAT) widget set-up, display, analysis, and operations interface. The system is programmable to support up to 64 data channels (specified at the time of order). CSV format log files record analog levels with IRIG time annotation.



ADAT DISPLAY SOFTWARE

The Model 2680AP provides users a convenient graphical operator interface that records time tagged voltage samples from a high performance DAQ Device to a log file. Up to 32 (or optionally 64) named analog inputs can be logged at a scan rate configurable from 1,000 times per second to once per second. System configurations may be stored and recalled as desired. Once per scan period, the 2680AP writes the voltages to the log file along with a time stamp. Data is time stamped with IRIG synchronized time. At the end of acquisition, the CVS log file can be opened in Excel or other 3rd Party tool for viewing and analysis.



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TECHNICAL SPECIFICATIONS

Input

Sources 32 (or optionally 64) AGC or Similar Analog channels, single-ended 75 / 50 Ohm
Sample Rate 1K S/Sec per Channel; 32K S/Sec 32 CH/64K S/Sec 64 CH Composite, 16-Bit resolution
Voltage Range +0.1V, +1V, +5V, or +10V SW Selectable

Operator Display & Control

Status Voltage level by channel, user selectable scan rate
Setup Channel ID Name Assignment, Scale (V or Dbm), Time Annotation, Scan Interval
Software System software includes ADAT-AGC (Acroamatics Display and Analysis Tool with AGC recorder plug-in), MS Office, under user choice of Win10 Pro 64-Bit or Enterprise LTSC (Enterprise must be joined to user's MS Win 10 Enterprise license within 60 days of delivery).

Output

Log File IRIG time annotated Log File Output: Excel Compatible CSV containing time annotated samples at selected scan rate.
PCM Stream Output: IRIG CH4 PCM containing frames of time annotated samples at the selected scan rate.
Option to record live PCM to local SSD for mission playback.

Time

Time Time Input: IRIG A, B, or G

Physical

Sig I/O & Adapter 19.0W X 1.75 H X 7.4 in. (two each 32 channel, four each 64 channel)
Kybd / Mon 19.0W X 1.75 H X 24 in.
System Chassis 19.0W X 1.75 H X 24 in. (1u 32 channel) or 19.0W X 3.5 H X 24 in. (2u 64 channel)
Weight Approx 26 lbs., Total (excludes rackmount 19 in. mon/keyboard)
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%
Operating 0° to 40° C
Temperature Storage -40° to 85° C

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