

ANALOG DATA ACQUISITION Battery and Fuel Cell Testing



- » 16-bit A/D converter on each channel
- » Channel accuracy: $\leq 0.05\%$ full scale input type configuration
- » 1,000 VDC common mode
- » 1 MOhm input impedance on voltage inputs
- » Thermal drift compensation on each channel maintains accuracy over a wide temperature range
- » Simultaneous data sampling; not multiplexed
- » 1kHz burst sampling possible via external trigger input
- » Up to 100Hz continuous data sampling
- » Each module contains 32 slots input channels; 4 modules per 2U rack (as shown)
- » Each slot supports input types: $\pm 100\text{mV}$, $\pm 5\text{V}$, $\pm 10\text{V}$, $\pm 75\text{V}$, $\pm 150\text{V}$, $\pm 300\text{V}$, 4-20mA, Thermocouple (K, J, S, T types)
- » Standard and Pro software packages (see over for details)
- » Custom enclosures and form-factors available

DAQ Additional Features

- » Communication interface: 10/100 Mbps Ethernet
- » CAN Bus interface optional
- » Each module can be connected in a star Ethernet network configuration for 1,000+ channels
- » Simultaneous data sampling on each board; not multiplexed
- » Standard 2U 19" rack box, holds up to 4 modules for up to 64 differential, or 128 daisy-chained input channels



Software Specifications

Performance Commitment:

At Greenlight, we pride ourselves on making world-leading test equipment. We are committed to your satisfaction and we will do whatever it takes to meet or exceed your expectations.

| SOFTWARE FEATURE | DAQ (Standard) | DAQ (Pro) |
|---|----------------|-----------|
| Configurable data logging/real-time charting | 5 Hz | 1kHz |
| Configurable on-screen alarm notification | ✓ | ✓ |
| Configurable signal scaling | ✓ | ✓ |
| Historical graph/xy graph/trigger-based chart | - | ✓ |
| Programming interface support (C# / C++ / labview) | ✓ | ✓ |
| Support for custom-built labview plug-ins | - | ✓ |
| Integrated software filters (moving average, low-pass, high-pass filters) | - | ✓ |
| Support for custom signal manipulation (user defined algorithm) | - | ✓ |
| Display generated data files(s) | ✓ | ✓ |
| Included with DAQ hardware | ✓ | - |

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