

Analog Cell Voltage Monitoring and Data Acquisition

Battery and Fuel Cell Testing



- 16-bit A/D converter on each channel
- Channel accuracy: $\leq 0.05\%$ full scale input
- 1,000 VDC common mode (maximum)
- ≥ 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
- Up to 32 input channels per module and up to 4 modules per 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 upgraded Emerald™ software packages (see over for details)

Features

- Communication interface: 10/100 Mbps Ethernet
- Optional CAN Bus interface
- Each module can be connected in a star Ethernet network configuration for 1,000+ channels
- Standard 2U 19" rack box, holds up to 4 modules for up to 64 differential, or 128 daisy-chained input channels
- Custom enclosures and form-factors available



Software Specifications

SOFTWARE FEATURE	Standard Software (Included)	Upgraded Emerald™ Software (Optional)
Configurable data logging/real-time charting	5 Hz	Up to 100Hz for most channel configurations
1kHz burst mode data logging	-	✓
Configurable on-screen alarm notification	-	✓
Configurable signal scaling	✓	✓
Historical graph/x-y graph	-	✓
Programming interface support (C# / C++ / labview)	✓	✓
Support for custom-built labview plug-ins	-	✓
Support for custom signal manipulation (user defined algorithm)	-	✓
Included with DAQ hardware	✓	-

PERFORMANCE COMMITMENT:

At Greenlight, we pride ourselves on making the world's best testing equipment. We are committed to your satisfaction and we will do whatever it takes to meet or exceed your expectations.

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