

Cell Voltage Monitoring System

CVM—2582A

SPECIFICATIONS

- **USB (Universal Serial Bus)**
USB v2.0 high speed device; bus powered
- **CAN (Controller Area Network)**
Up to 16 possible slave addresses
- **RS-232/RS-485 Serial Interface**
Modbus Available
- **32-Channel Isolated Analog Input**
±63µV resolution (16-bits)
0.05% Accuracy (NIST Calibrated)
±2 VDC range/channel
5 kHz sample rate (full 32 channels)
1 kV Isolation
85 VDC Common Mode Rejection
- **2 K-Type Thermocouple Inputs**
0 °C to 1024 °C temperature range
0.25 °C resolution
Internal Cold junction compensation
- **Additional Analog Inputs (Optional)**
14-Channels
10 bit resolution
0—2.048 VDC (5 VDC tolerant)
- **Additional Digital I/O (Optional)**
16-Channels
Independently configurable as input or output
User definable Warning & Alarm setpoints
- **On-Board Logging**
Supports logging of cell data to microSD card as a CSV file for analysis at a later date
- **Configuration Software**
Included software application allows you to set up, log, and analyze up to 16 CVMs in one application
- **Software Development Tool-Kit**
Provided SDK allows your and your developers to develop custom software applications to use the CVM2582 DLL's and LabView VI available
- **Power**
USB powered or 8—30 VDC external DC
Less than 2.5 watts total power
- **Dimensions**
4.7" x 4.1" x 1.2" (121 x 104 x 32 mm)
0.55 lb (250 g)



FuelCellsEtc

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Cell Voltage Monitoring System

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Simple, precise, flexible, and robust describe the capabilities of FuelCellsEtc's Fuel Cell Monitoring System



- **Highest Precision**
- **Fastest Acquisition Rate**
- **Lowest Power**
- **T/C Option—Standard**
- **Extra I/O Capabilities**



FEATURES AND ADVANTAGES

- **Effective**
Provides an effective and useful research grade fuel cell or battery analysis tool
- **Stackable**
Can be combined with up to 16 other CVMs to provide up to 512 channels for data acquisition
Provides a flexible solution for small to large fuel cell stacks, battery research, and other research applications
- **Easy to Configure and Operate**
Can be easily configured using FuelCellsEtc's CVM Analysis software to support different communication protocols, alarm trip-points, manipulate I/O, etc.
- **Extensive Communications Capabilities**
USB, serial (RS-232/485), CAN bus
- **Temperature Measurement**
Reads two type "K" thermocouples directly with cold-junction compensation built in
- **Power Flexibility**
Can be powered on an external 8—30 VDC input or via USB

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