



### Applications:

- Hybrid-Electric-Vehicle (HEV) battery performance
- Li-ion Cell measurements
- High voltage, precision battery stack, or cell balance measurements
- High power portable equipment
- Motor shunt measurements
- Commercial, military hybrid vehicles
- Fuel cell stacks
- High voltage data acquisition
- Battery back-up monitoring

High Voltage . . . Ultra-Accurate



VOLTpoint is a precision measurement instrument for cell-by-cell determination of battery voltages from millivolts up to  $\pm 100V$ . Up to 48 separate inputs can be monitored to accuracies of less than a few millivolts for any direct reading over the complete operating temperature range. Each input is galvanically isolated from each other by  $\pm 500V$  common mode voltage, so that different ground potentials have no effect on any reading.

Direct voltage inputs of any value up to  $\pm 100V$  can be directly applied from a single cell or from a series of stacked cells. Full accuracies are obtained for each channel by a dedicated 24-bit sigma-delta A/D per channel powered by its own DC-DC converter. This assures that each input is floating from earth ground and has no effect on any other reading.

A full software application is part of VOLTpoint, no programming is necessary. Simply connect the inputs and measure. There is practically no warm-up time. Full compatibility, either USB or Ethernet, allows its use in a network, as a stand-alone, or export to Excel®.

## Fast Start-Up of Applications

- Minimum warm-up and stabilization time
- Easily expand channel count by adding VOLTpoint instruments
- Easy connection with removable screw terminals

## Investment Protection

- Software application for any measurement...easily modify for proprietary needs
- Reconfigurable to changing needs – add channels as needed
- Multiple instrument expansion to thousands of channels
- Full Ethernet (LXI) or USB compatibility

## Confident Results

- Dedicated 24-bit Sigma-Delta A/D per channel
- Galvanic isolation to protect signal integrity – 1000V channel-to-channel
- Guaranteed accuracy over temperature range
- Rugged steel enclosure for harsh environment
- Separate calibration utility to assure accurate results

## Ready-to-Use

- No programming necessary...simply connect inputs and measure
- Monitor and control measurements from anywhere over the web
- Measurement repeatability for exacting needs
- Unattended operation – set alarm limits and get email notification



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