

Specifications:

Input: 36 VDC Maximum
Shunt Current: 30 Amps DC Maximum
Temperature Range: 0 – 50 Deg. C
Humidity Range: 5 – 95%, Non-Condensing

Electronic Meter:

Display: 17 miniature LED's
Input: Digital
Scale: 0 to 100 %, (E to F @ 1/16 increments)
Accuracy: 6.25 %

Graphic Overlay:

Conductive Ink, bi-color, 1" x 5.5" overlay with embedded circuitry consisting of:
1 – amber LED
2 – Green LED's
4 – Colors (black, gold, white, clear)
1 – Ribbon Connector
1 – Electronic Meter as described above
1 – UL2601 required graphics.

Processor:

Flash-Based processor with 32 Kbytes of data logging memory. Firmware upgrades available over the USB interface. Serial data and electronic meter output are updated at 0.25-second intervals. A battery backed-up real time clock provides time stamping.

Inputs/Outputs

1 – analog voltage input. Selectable 12 VDC/24 VDC input.
1 – analog current input .
2 – optically isolated digital outputs. (*either Momentary or Latched*)
1 – optically isolated digital input.
2 – On-board jumpers for parameter selections.
1 – interface connector.

USB Port:

1 – Built-in USB 1.1 and 2.0 compatible USB port. Virtual Com Port drivers allowing communications at the PC end.

Power Supply:

1 – On-board, high efficiency DC-DC converter providing 5VDC for the processor and support circuitry. 6-36 VDC operating range.

Sensing / Driver Module (SDM):

1 – Completely assembled housing to accommodate the mounting of the PCB with all necessary hardware and connectors.
1 – Provisions for mounting in customer Power Supply.

Monitoring Functions:

The DC Power Monitor samples the following parameters that will be communicated for the purpose of monitoring status of selected power source:

- DC Voltage
- DC Current
- Source of Power (AC or Battery)
- Ambient Temperature
- Event type with time and date stamp, battery ID
- Event parameters, volts, amps, temp, amp/hours
- Total charge/discharge amp/hours since activation date.

Display Functions:

The DC Power Monitor will display the following information on both the Graphic Overlay and the PC screen pop-up:

- AC Source Power (*steady green*)
- DC Source Power (*steady green*)
- Low Battery Warning (*steady DC green/flashing amber*)
- Full charge (*steady AC green/Flashing DC green*)
- 5 minute shutdown warning (*steady amber*)
- Battery Capacity (*LED meter as a function of stored battery discharge curves*)

The PC pop-up screen will indicate status of the above functions and also include time remaining in a digital format.

Included Options:

- Internal shunt for sensing of DC current.
- CD Software package (Customer Screen Data)
- Data Retrieval Software package. (for OEM field service)
- Tri-Chemistry: Sealed Lead Acid / Nickel Metal Hydride and Lithium Ion. (User selectable)
- Dual Voltage: 12 VDC / 24 VDC (User Selectable)
- Storage of up to two (2) Battery configurations