C&D TECHNOLOGIES
Power Solutions

12-1000

C&D TECHNOLOGIES® ACCESSORIES

RETURN RECYCLE LEAD

# Battery Cycle Monitor Plus

# BCM 2200-NM


The Battery Cycle Monitor Plus (BCM 2200-NM) continuously monitors the most critical performance characteristics of the battery system: string voltage, battery current, ambient temperature, quantity and duration of discharges.

The BCM 2200-NM offers simplified user interfaces with Windows XP® compatible software. It tracks the activity of the battery and provides effective battery life maintenance tool by identifying damaging events.

## FEATURES & BENEFITS

**The BCM Plus keeps an electronic log of critical battery events.**

- **Memory:** Valuable data on critical events is permanently kept in nonvolatile electronic memory in the BCM 2200-NM.
- **Discharges:** BCM 2200-NM records each discharge event, keeps a count of the total number of discharges and groups the discharges by duration.
- **Voltage Excursions (Float Events):** BCM 2200-NM monitors the total battery system voltage at the battery terminals and records all excursions outside the proper float voltage range.
- **Temperature:** Extreme temperature deviations can adversely affect the life expectancy of the battery string. BCM 2200-NM continuously monitors the current ambient temperature and alerts the user if the range is exceeded.

**Three convenient ways to access BCM 2200-NM data:**

- **Front Panel:** The easy to read LCD display lets you quickly see battery data at a glance.
- **Alarm Contacts:** Critical functions, such as discharge in progress and voltage excursions, can be alarmed for local and remote monitoring.
- **RS232:** Using a portable PC, you can easily download alarm and discharge events for detailed analysis.

**Internal battery back-up system assures BCM 2200-NM operation in case of utility power outages.**

- Battery back-up in the BCM 2200-NM assures continuous monitoring of battery system activity. The record retention system stores all information safely during an AC outage. The monitor tracks the condition of the internal batteries and signals if replacement is required.

**Installs easily, safe to use**

- The BCM 2200-NM is easy to install. The unit requires a 110 volt, single-phase AC power supply. The unit comes with a specially calibrated inter-cell/unit connector shunt, cables and hardware for wall or rack mounting. The BCM 2200-NM can be connected to most C&D Technologies battery systems up to 750 VDC.

**Simplified Software Interface**

- The BCM 2200-NM utilizes user-friendly software that is easy to install into your laptop computer, and is compatible with the latest Windows XP® Operating Systems. With this software and computer interface the user can review and download alarm and discharge logs and access real-time data.
- The BCM 2200-NM software uses menu buttons for an easy graphic interface. Graphing capabilities facilitate data analysis. Data can be saved to a file, printed, or cut-and-pasted into reports.

**Maintenance Tool**

- The BCM 2200-NM serves as a tool for the maintenance of the battery system. Through proper analysis of data collected by the device, the user can access and troubleshoot key indicators of battery health and system performance. This information can then be used to identify potential problem areas before they impact the integrity of the system.

## DIMENSIONS

| Height | Width | Depth | Weight |
|---|---|---|---|
| 7.25 in (84.15 mm) | 8.75 in (222.25 mm) | 4.25 in (107.95 mm) | 8.35 lbs (3.75 kg) |

## DATA COLLECTION

| | |
|---|---|
| **Storage Memory** | 2,000-8,000 events |
| **Retention** | >10 Years |

## INTERFACES

| | |
|---|---|
| **OPERATOR INTERFACE** | |
| **Display type**<br>**Display size** | LCD<br>Four rows of 20 characters each |
| **COMMUNICATIONS INTERFACE** | |
| **Type**<br>**Speed** | RS232<br>9600 Baud Rate |
| **SOFTWARE INTERFACE** | |
| **Windows XP® Operating System** | |
| **DISCHARGE ALARM CONTACT** | |
| **One set** | Form A contacts<br>Normally open |
| **RATING** | |
| **Current**<br>**Voltage**<br>**Power** | 1.0 Amperes<br>126 VAC<br>24 Watts |

## VOLTAGE

| | |
|---|---|
| **BATTERY STRING VOLTAGE (UPS)** | |
| **Input Voltage**<br>**Resolution** | 0-750 VDC<br>1.0 VDC |
| **BATTERY STRING VOLTAGE (TELECOM)** | |
| **Voltage**<br>**Resolution** | 0-75 VDC<br>0.1 VDC |
| **BATTERY STRING VOLTAGE (ALL)** | |
| **Isolation Voltage**<br>**Cable** | +/- 1,000 Vpk<br>37.5 ft, 2-conductor |
| **UPS CURRENT SHUNT INPUT (ALL)** | |
| **Differential Mode Input Voltage**<br>**Resolution**<br>**Cable** | -20.0 to +20.0 mVDC<br>0.01 mVDC<br>25 ft., Shielded Twisted Pair |

## ENVIROMENTAL

| | | |
|---|---|---|
| **Utility Voltage** | 104 VAC | 135 VAC |
| **Current draw** | • | 50 mARMS |
| **Internal battery life (without use)1** | >10 years | • |
| **Internal battery life (constant use)1** | >240 hours typical | • |

1 under normal use, ambient, 104˚F (40˚C)

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