

# BATTERY MONITORING VUECELL

VCBMU

Multi-channel real-time comprehensive  
battery monitoring for critical  
standby power applications.



- Real-time battery monitoring platform for mission critical battery systems.
- Intuitive touch-screen display allowing user access to multi-menu system.
- The system is modular and can be increased in scale to suit each site/application.
- Multiple battery technologies can be supported by a single terminal.
- Data logging with USB interface to allow down load of data. The unit can also provide Modbus, TCP/IP and other communication protocols.

Providing sustainable  
**critical power solutions**  
in an ever demanding world.



**SYSTEMS**  
POWER PROTECTION SPECIALISTS

## TECHNICAL SPECIFICATIONS

# Terminal Unit

SYSTEM	VIDI+, VIDI+ I/O
CPU	Intel® Celeron based processor 1.8 GHz
SYSTEM MEMORY	1x DDR2 SO-DIMM, Max. 4GB
SYSTEM CHIPSET	Intel® SCH US15W XL
BIOS	Award
WATCHDOG TIMER	256 levels
SSD	CF Socket
H/W MONITOR	Yes
EXPANSION SLOT	1x Mini PCI-E connectors

  

GRAPHICS	
VGA CONTROLLER	Intel® US15W XL integrated GMA500
VGA MEMORY	N/A
DISPLAY INTERFACE	Support DVI & 24-bit single channel LVDS

  

ETHERNET	
CONTROLLER	Realtek RTL 8111C GbE LAN
CONNECTOR	RJ-45 on-board

  

MULTI I/O	
CHIPSET	Winbond W83627EHG + Fintek 81216DG 1x IDE (UDMA33/66/100), 1x KB, 1x Mouse 3x RS232, 1x RS-232/422/485
USB	2 ports on board Pin header for 4 ports (USB 2.0)
AUDIO	Intel® SCH US15W XL built-in audio w/ Realtek ALC662 codec for 5.1 CH
OTHERS	Digital I/O (4 in, 4 out)

  

MECHANICAL AND ENVIRONMENTAL	
DIMENSIONS	102mm x 147mm (4" x 5.8")
MAX. POWER REQUIREMENT	TBC
OPERATING TEMPERATURE	0°C~60°C (32°F~140°F)
STORAGE TEMPERATURE	-20°C~80°C (-4°F~176°F)
RELATIVE HUMIDITY	10%~90% (non-condensing)

  

OPERATING SYSTEM	
IB888-11 MICROSOFT WINDOWS	Windows 10



### POWER REQUIREMENT

The SBC requires a 230Vac single phase supply or DC.

Monitors take power from the battery string to which they are connected (full voltage to avoid creating imbalances).

### LOCAL DISPLAY

The touch screen display provides a user interface for the operator allowing access to both the system menus and calibration settings (security setting can be implemented to prevent unauthorised changes to system parameters).

The screen also displays battery information, such as, battery current, battery voltage, battery temperature and where fitted, battery electrolyte levels. Where multiple batteries are connect to the terminal unit, the display will scroll at a predetermined period showing each connected battery in turn. The system terminal display will however, highlight any fault on any given battery connected to the system and will stay static on the faulty battery until the fault has been acknowledged and/or cleared.

For example a combination of graphical representations of a battery, plus numerical values could be presented to most clearly illustrate battery status – all in real time. Coloured backgrounds to numerical data (e.g. green/yellow/red) and/or dedicated areas of the display could be used to highlight potential or actual causes for concern.

### WEB SERVER

Any data presented on the LCD panel could be accessed via the internet. This would allow battery status to be monitored from anywhere (e.g. at a desk or whilst mobile).

### ADDITIONAL FEATURES

- Ethernet connection (for local network interfacing).
- RS485 connection (To interface with voltage/ current monitoring devices).
- Web-server addressable (internet connection fitted).  
*Note: This feature is particularly useful for individual applications. However, for clients with multiple sites, it would be better to offer a remote server solution, monitoring several sites, to reduce the loading on the SBC.*
- No hard disk (OS contained on flash memory).
- Works with Nickel Cadmium, Planté Lead acid, Valve Regulated Lead acid and Lithium derivative cells.
- Alarm outputs are available in both Local - (via display unit), Remote - (via volt free contacts, web server - if internet connection fitted) or via CAN bus.
- This unit can be tailored around your site assets to provide full viability of your critical power systems.

**For more information about this product and our free system survey, please contact us.**



pe-systems.co.uk  
+44 (0)1942 260330  
sales@pe-systems.co.uk

