hy Battery Monitori

Statistically the number one cause of UPS failure is battery failure.

Battery monitoring protects your profits.



PowerShield helps to protect:

Australia and New Zealand IBM, ANZ Bank, Unisys, EDS, Telstra, Equinix, Vector Electricity, Australian Parliament House, Rio-Tinto

Hong Kong and Taiwan Stock Exchanges, Singapore Telecom, Barclays Bank, Merrill Lynch, Deutsche Bank, Power Semi-Conductor, KCRC, Lehman Bros

IBM, SNCF, Escota, Air Liquid, Pfizer, Indesit, Ford, Rabo Bank, St Charles Hospital

Layer 42, LA Metro, Charles Schwab, T-Mobile, Wachovia Bank



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What PowerShield users say:

TVNZ

"PowerShield gives us the confidence to get on with running our nusiness with the peace of mind that, should there be a power outage, our battery back up is in A1 condition."

Telecom NZ

"PowerShield's increased safety through optical isolation became very important to our system. The reduction of maintenance cost was an added advantage."

ver the application, whatever the locatior PowerShield can help protect your business.



protecting your power supply





BATTERY MONITORING



PowerShield

PowerShield is committed to providing cost effective tools and services to effectively manage stand-by battery banks, thereby ensuring the reliability of back up power systems and minimising the risk of failure to critical systems.

Knowledge and experience in the battery monitoring market since PowerShield's formation in 1996 has been applied in the development of the Sentinel System which provides a modular approach with options to tailor systems to individual requirements.

Sentinel System Features

The Sentinel system uses one Monitor, with the option of Measurement Modules (voltage measurement) or the m-Senzor (voltage and ohmic measurement).

Voltage monitoring will identify incorrect charge voltage and faults such as a short circuit in a battery/jar, which causes a drop in voltage. Capacity is determined through a discharge test. Applicable for vented batteries/jars or entry level monitoring for VRLA batteries/jars where regular testing is undertaken. The base m-Senzor provides voltage and soon to be introduced ambient temperature near the battery/jar. An upgrade path allows for the addition of an ohmic measurement, with battery/ jar post temperature to be added as a further feature shortly.

Ohmic technology measures both the metallic and chemical paths thus identifying more failure modes. Ohmic measurements are taken under float conditions without the need for a discharge. Common failure modes such as dry out, open circuit battery/jar, loss of compression, grid corrosion and loss of active material will be detected with an ohmic measurement.

Readings can be taken daily or at intervals selected by the client. The system will automatically check that the battery is in the correct mode before making the Ohmic measurement and automatically generate a baseline for comparison.

The Sentinel Monitor has a range of communication options, with a dedicated service port and also optional primary and secondary communication ports to interface with monitoring software, building management systems or third party products.

Sentinel System			
System Parameters	Option 1	Option 2	Option 3
Block Voltage	✓	\checkmark	
String Voltage	✓		
String Current	✓		
Ambient Temperature (room)	✓		
Impedance			
Upgrade Path		1	1

Benefits

- 24/7 alarm notification
- Event Log of all activities affecting the battery bank
- Automatic capture of data and report generation
- Remote Access via modem, Building Management System and TCP/IP
- Ease of installation and expandability
- Reduction of call-out charges through preventive maintenance
- Analysis of data allows remedial action for individual cells to extend their life
- Purchasing of batteries through planned schedules, not emergency replacement
- Reduce or eliminate revenue loss by knowing the reliability of stand-by batteries
- Avoid potential contract payments for service downtime



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