

Now you could fully count on your critical back-up system With PWR's latest monitoring system

PWR3921 Battery Monitoring System

You should count on your critical back-up power when they are needed upon power outage. To ensure this, a reliable battery monitoring system will be significant.

PWR3921 is a series of state-of-art Battery Monitoring Systems that adopts advanced multi-frequency measurement technology and power carrier wave for communication. This patented and field proven system is able to monitor battery voltage, internal resistance, current, temperature and thus estimate the battery state of charge (SOC) and state of health (SOH). It is essential for critical UPS system and protection application.

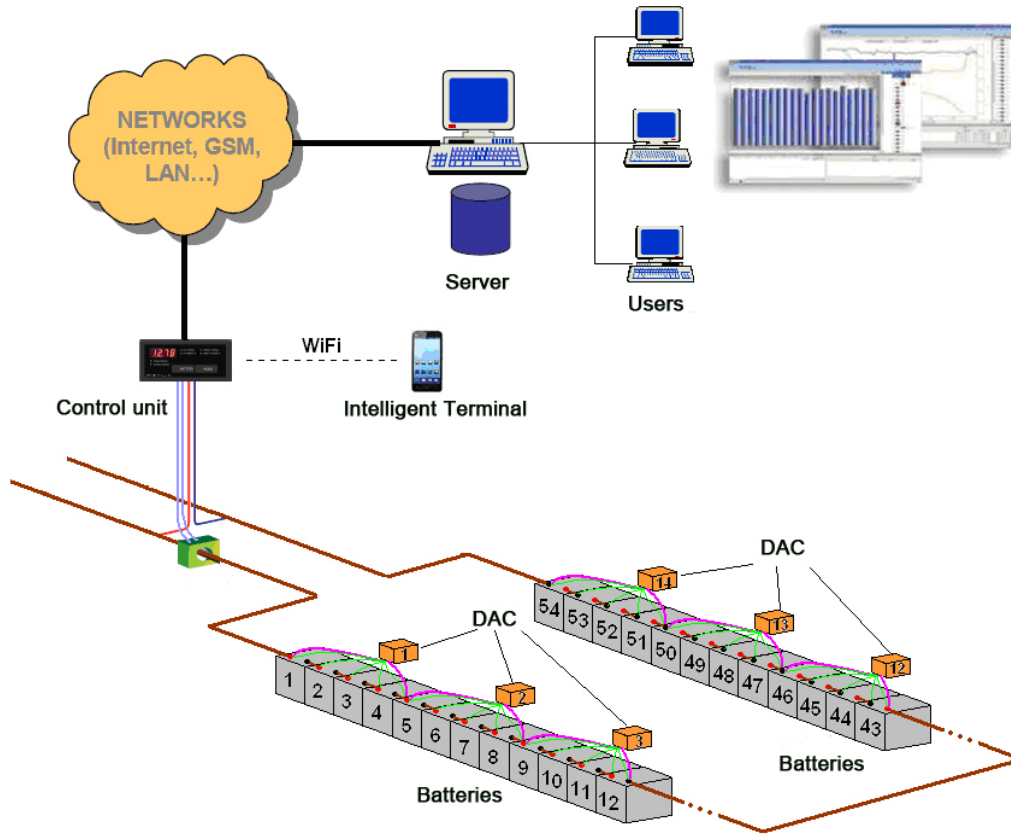
System Composition



Features

- Continuous 24/7 on-line monitoring for battery system integrity assurance
- Adopts multi-frequency measurement technology for battery measurement, more accurate and reliable.
- Unique communication technology of carrier wave. It greatly simplifies the wire connection and makes it much easier to use.
- All systems consist of only 3 mains parts: Data Acquisition Case (DAC), control unit and Client software installed in sever or simply a tablet/smart phone.
- Modular design makes it very simple to install onsite and easily expandable to add more battery systems.
- Each DAC connects with 4 batteries with easy wire connection, very economical to use
- Advanced data processing technology, accurately analyze the battery state of charge (SOC) and state of health (SOH).
- Control unit has different way of communication terminals like RS485, wifi and Ethernet. You could optionally transfer data to smart phone onsite or internet remotely.
- Complete data monitoring for voltage, current, resistance, temperature with early warning for weak batteries. Effectively shorten the time for battery routine discharge to know real battery capacity.
- This system is compatible with PWR's series battery load bank during battery discharge. Complete solutions for battery system to ensure its performance.
- Very competitive price against its peers. Now, it is very economical to add this significant "safeguard" to your critical system.

Example of Application



Connection: Instead of one modular with one cell, each PWR's DAC is connected with 4 batteries. For example, in 110V power substation, you will only need 14 DACs if cell type is 2V.

Monitoring: All measurement data will be transferred to the control unit simply through battery and connecting busbars using carrier wave. Data like string voltage, cell voltage, cell resistance, current and temperature will be displayed on TFT screen of control unit.

Communication: Control unit has different way of communication terminals like RS485, wifi and Ethernet. You could optionally transfer data to smart phone onsite or internet remotely.

Technical Specification

Item	Measurement range	Accuracy
Cell voltage	0~16V	0.2%rgd+6dgt
Cell resistance	0~10mΩ	2%rgd+6dgt
Charge/discharge current	0~1000A (with optional CT)	1%rgd+6dgt
Temperature	0~100°C	0.5°C
String voltage	0~260V (or customized)	0.2%rgd+6dgt
Working environment	0~50°C, ≤90%RH	
Standard	CE marking	