

Monitoring station battery current and voltage

APPLICATION A104

Type of Company: Public Utility

Location: Wyoming

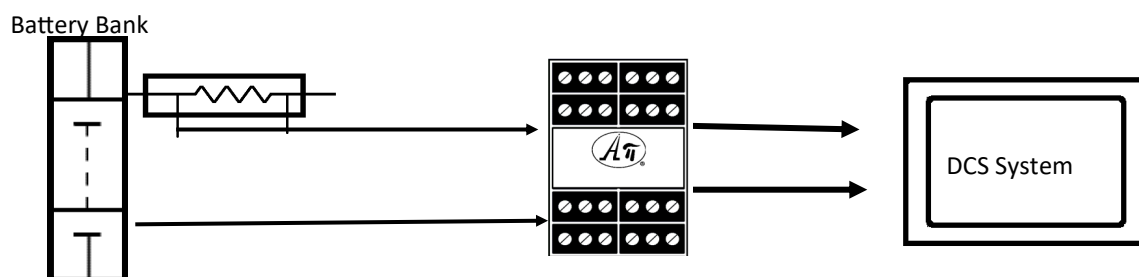
A battery room is a room in a facility used to house batteries for large-scale custom-built backup or uninterruptible power systems providing electric power for telecommunication and computing equipment in server centers, electric power plants, telephone company facilities, and remote telecommunications stations. The batteries may provide power for minutes, hours or days depending on the electrical system design. Often batteries for large switchgear line-ups are 125 V or 250 V nominal systems, and feature redundant battery chargers with independent power sources.



Photo by Jelson25

The Engineering Issue

- The engineer has a requirement to monitor the following:
 1. The voltage directly from the station batteries
 2. The current for the station batteries from an existing DC millivolt shunt
- Both signals must interface with his newly installed DCS system.



The engineer used an APD 2000 with Channel 1 factory-ranged for the output from the DC shunt and Channel 2 factory-ranged for the battery voltage. The unit has independent span and zero adjustments as well as LEDs to help the maintenance technician with installation and maintenance.

Problem. Solved.

