

CDAC[®]

Fleet Management System For Industrial Battery Chargers



CDAC[®]
CHARGER DATA ACQUISITION AND CONTROL

CDAC provides unparalleled insight into battery charging operations for more effective fleet management, reducing operating costs and increasing efficiency.

- ⚡ Automatic configuration and real-time monitoring of charging operations*
- ⚡ Over 30 items of data collected for each charge cycle*
- ⚡ Prevention of detrimental charging scenarios at battery connect*
- ⚡ Abnormal charging conditions are reported when data is collected*
- ⚡ Advanced system security provides protection against unauthorized access*

AMETEK[®]
PRESTOLITE POWER



CDAC turns your large fleet of battery chargers into

CDAC is a stand-alone system designed to provide centralized control, monitoring, analysis, and reporting of industrial battery charging activities in large material handling installations. Through real-time polling of the charger fleet, CDAC allows you to have instant access to charge cycle data and current operating conditions. It can be used to track individual battery and charger performance and to identify abnormal charge conditions that degrade battery operation. In addition, CDAC provides fleet maintenance tasks such as battery watering, equalizing, and sufficient cooling after charging. It also offers power management and energy saving features to help you avoid peak energy consumption penalties.

By providing detailed information concerning battery charging operations, CDAC allows you to take the necessary actions to optimize the way batteries are utilized for reducing operating costs. Detailed charge data is easily displayed in convenient reports, summaries, and graphs.

CDAC features

CDAC enhances fleet management through key features that pertain to various aspects of the battery charging operation including:

- Extensive data collection
- Computer review of charge cycle data
- Custom reports detailing charging practices and battery performance
- Warning and prevention of detrimental charging conditions
- Automatic equalizing of batteries
- Statistical analysis of battery performance over life
- Equipment maintenance documentation (battery/charger/truck)



System components

A CDAC system consists of CDAC-compatible charger controls, Battery Identification (BID) Modules, Truck Identification (TID) Modules, communications cabling, a host computer equipped with the CDAC software, and an optional Next Battery Moving Message Board.

Every CDAC charger must be outfitted with a CDAC-compatible control containing all the circuitry necessary to communicate with the BID modules and host computer. The AC2000-EXP control is CDAC-compatible for the ferroresonant charger product line. The Ultra-Charge is also available with a CDAC-compatible control, the UC2000-EXP. An RS-422 interface board mounts readily to the back of each charger control to provide serial ports for communications.

The host computer is outfitted with an RS-422 communications port, and each charger is interfaced to the host computer using communications cable in a "repeater" format. This simplifies the installation by requiring only one cable between the host and the first charger in the link, as well as any subsequently connected charger.

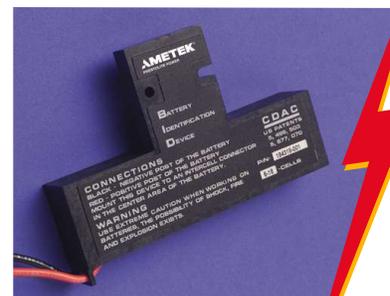
The computer, loaded with a licensed copy of the CDAC software, functions as the host of the system. Through real-time polling of the battery chargers, the host computer provides the following:

- Automatic prevention of detrimental charging scenarios
- Warnings when charge cycle parameters exceed pre-defined limits

- Systematic equalize charges
- Power management and energy saving features
- Battery watering information
- Fleet maintenance documentation
- Custom report formats as well as statistical analysis of battery performance over life

Battery identification module

Battery Identification (BID) modules are used for assigning names or numbers to batteries so that collected charge cycle data can be easily identified by battery ID. Assigning an ID number to batteries also makes it easy to evaluate realized battery life, support battery warranty claims, and identify battery-specific problems. The easily programmable BID module is designed to maintain information for a minimum of ten years even after it has been disconnected from the battery. This allows servicing of the battery without losing the battery's identification. The BID module has a wide operating range and communicates with the CDAC control through standard charging cables and connectors, eliminating the need for special wires or SBX connectors. Designed to outlast the life of the battery, BID modules are built to withstand the rugged environment of industrial lead acid batteries. BID modules are simple to program and can also be reprogrammed for use on different or new batteries, provided the battery's voltage is compatible with the BID.





Flexible fleet management information

⚡ Platform compatibility

CDAC is designed to run on Windows NT® for meeting system requirements or customer computer standards.

⚡ Convenient host access

The host computer can be accessed from a remote PC that is equipped with a modem and compatible modem software. Through this modem interface, authorized users are given all the same CDAC capabilities available at the host. Reports can be printed at the remote site or at the host computer.

Dial-up access provides a convenient way of staying in touch with (or in control of) charging activity from distant locations inside or outside of your facility. It can also be used as a means of receiving increased support from your battery or charger supplier as well as systems or service department. The CDAC Systems Group at Prestolite provides continual product support and assistance with software applications.

⚡ Application analysis

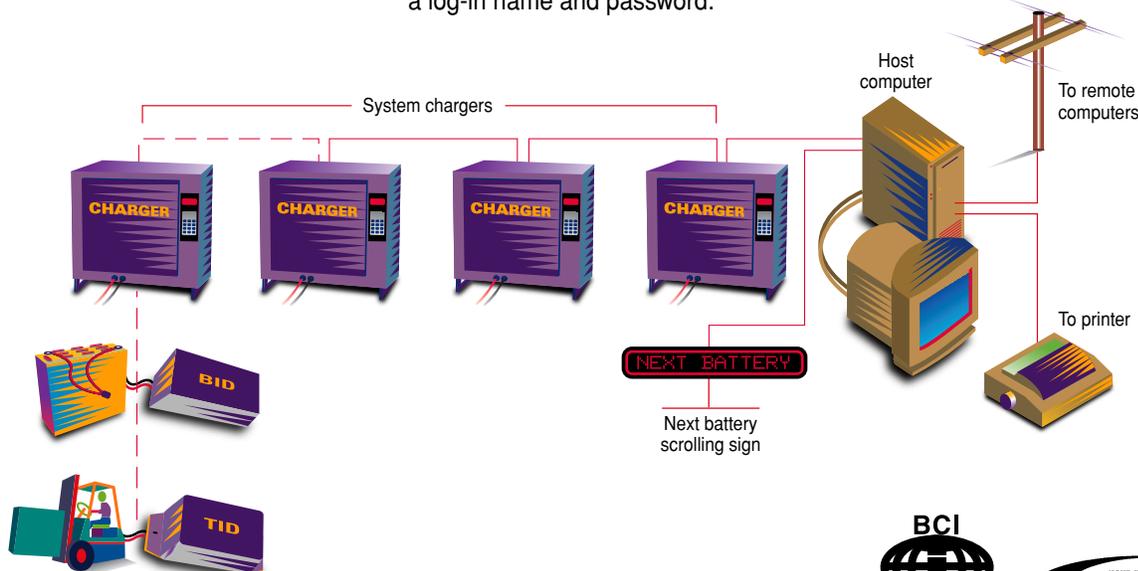
CDAC is a system to help extend the life of your battery fleet by providing you with increased insight into the battery charging operation. Charge cycle data can be analyzed for identifying practices or conditions which are detrimental to batteries, as well as for analyzing battery and charger utilization to maximize capacity, and for determining the proper amount of equipment required for a particular application. CDAC can also be used to compare the performance of batteries made by various manufacturers.

⚡ Data security

To help protect charge cycle data from unauthorized access and manipulation, the CDAC system contains multiple levels of security that are defined by the user designated as the system administrator. Log-in security ensures that other users only have access to menus and transactions for which they were authorized. Each user is assigned a log-in name and password.

⚡ Optional truck identification module

The Truck Identification (TID) Module makes it easy to assign an ID number to the truck for ease in identifying charging problems that are not necessarily the fault of the battery but that of the truck. Like the BID module, the TID module is easy to program. It attaches to the truck and communicates with the BID module so when battery information is transmitted to CDAC and the host computer, the truck's number will be included in the charging report.



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