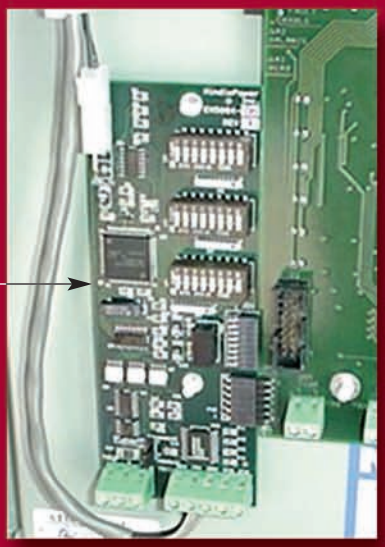
AT SERIES COMMUNICATIONS

DNP/MODBUS COMMUNICATIONS FOR THE AT10.1 AND AT30 SERIES BATTERY CHARGERS

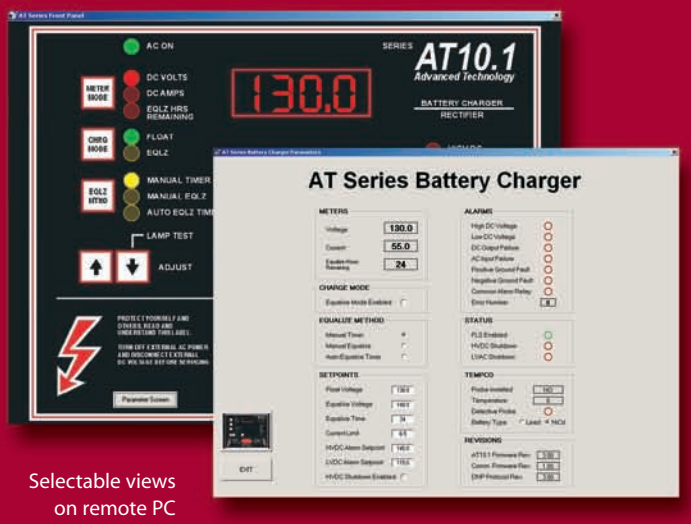


Communications PC board

Complies with Dnp3 Subset Level 2 Test

The AT Communications option allows the user to remotely monitor and control the AT Series Battery Charger over a serial connection.

- Supports DNP3 Level 2 and Modbus protocols over RS-232 or RS-485 half-duplex.
- The system can be used with a modem for telephone communications.
- Everything that the user can do at the charger's front panel display is accessible remotely.
- SCADA (Supervisory Control And Data Acquisition) systems will be able to control, monitor and log the events of the battery charger.



Selectable views on remote PC

HINDLEPOWER

LIST OF ACCESSIBLE PARAMETERS

Meters
- Voltage
- Current
- Equalize Time Remaining
- Battery Temperature*

Setpoints
- Float Voltage
- Equalize Voltage
- Equalize Time
- Current Limit
- High DC Voltage
- Low DC Voltage
- High DC Shutdown Enable

Status
- Temperature Probe Installed*
- Forced load Share Enabled*

Charger Mode
- Float
- Equalize

Equalize Method
- Manual
- Timer
- Auto

Alarms
- High DC Voltage
- Low DC Voltage
- DC Output Failure
- AC Input Failure
- Positive Ground Fault
- Negative Ground Fault
- High DC Voltage Shutdown
- Common Alarm Relay
- Error Number Code - Self diagnostics

These items are not accessible from front panel of battery charger.

ORDERING INFORMATION	
COMMUNICATIONS KIT	**PART #**
12 Vdc Charger	EJ5037-01
24 Vdc Charger	EJ5037-02
48 Vdc Charger	EJ5037-03
130 Vdc Charger	EJ5037-04
Modem Option **	PM5005-00
Modem Cable Option **	
with 10ft/3.0m Cable	EJ5084-00
with 25ft/7.6m Cable	EJ5084-01
with 50ft/15.2m Cable	EJ5084-02

Communications kit includes:
- A12 Communications Module pc board
- R29 Power supply (resistors for specific charger voltage rating)
- Operation Manual

**This equipment is industry standard. It may be purchased thru HindlePower or acquired from a local supplier. Contact HindlePower for specific equipment requirements.*

TYPICAL APPLICATIONS for SCADA Systems using DNP or MODBUS protocols

Figure 1. RS-485 Half-duplex Multi-Drop

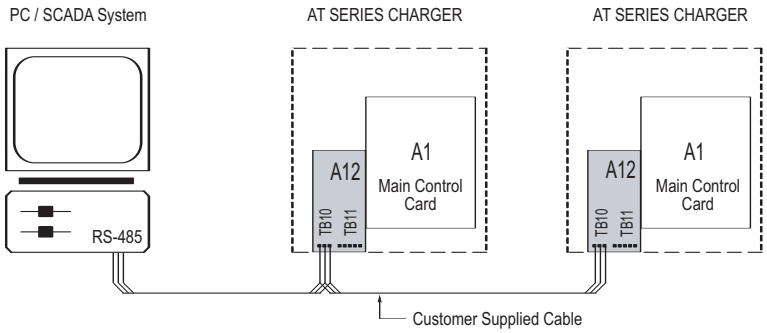


Figure 2. Standard RS-232 connection with or without hardware handshaking

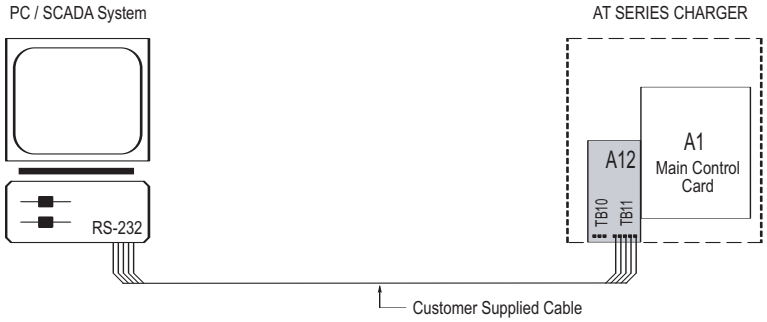
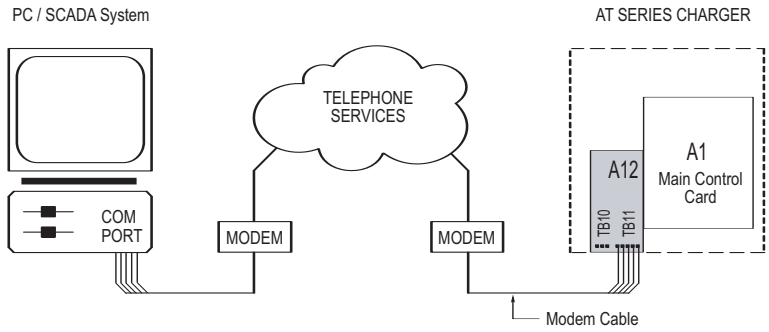


Figure 3. Remote communications using a modem



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