Smartpack2 Touch Controller

Ports and Navigation

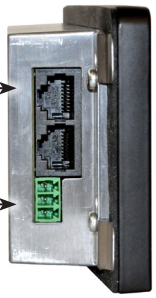
Menu list
For navigating within menu hierarchy

Touch Screen

Status LEDs
Green – Power on
Amber – Minor alarm
Red – Major alarm

Front Ethernet Port
Fixed IP address for addressing controller, 10.10.0.1; NO routing or access to external Local Area Network (LAN) from this port

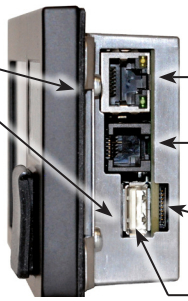
Front USB (2.0) host port



CAN ports
For connection to other controller modules (not a customer connection)

3-pin terminal block
For CAN communication to third-party equipment

Using USB & Ethernet Ports
For convenience in navigation, you can plug a mouse or keyboard into the USB ports. Alternately, you can connect a computer to the controller, using the front Ethernet port or a Wi-Fi dongle in the front USB port, and use the web browser interface, if you prefer working with a larger display.



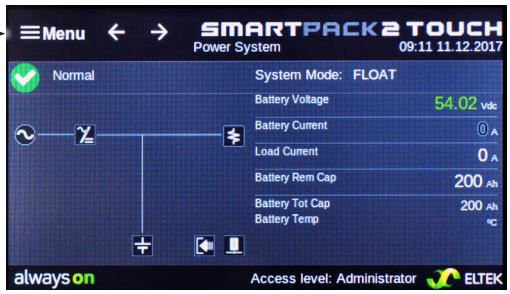
Side Ethernet Port
For permanent connection to a LAN

Com Port
RS-232 and RS-485 (Modbus)

Micro SD card slot

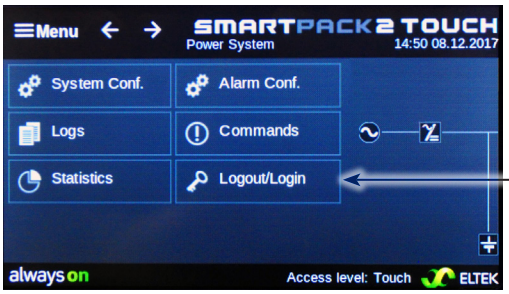
Side USB (2.0) host port

*Tap **Menu** on Home Page to access **Main Menu**.*



Home Page
Shows system status

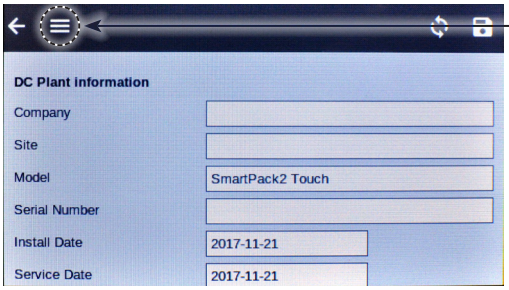
Use buttons to access main categories.



*Tap **Logout/Login** button to log in to the system.*

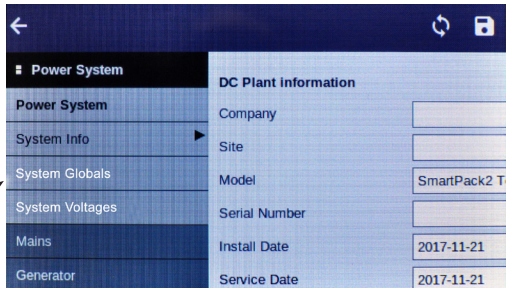
Main Menu
Includes links to main categories for configuration

Tapping a category takes you to the top level within that category.



Power System Info Page
(Top level within **System Conf.** category)

*Tap the **Menu** button within a category to display the submenu for that category.*



Navigation Bar
Displays submenus for system categories

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NOTE: To configure the system, you must be logged in as an administrator. Default credentials are:
User name: admin
Password: admin

To set up TCP/IP communication (in order to connect a computer to the controller via Ethernet or USB Wi-fi dongle:

1. Use the touch screen to navigate to: **System Conf. › Device Settings › Network Settings [TCP/IP Setup]**.
2. Choose the tab for the port to be used for the connection, and enter any required parameters.
   - **eth0** – Side Ethernet port. IIP settings assigned automatically (DHCP), if your network supports this capability. Otherwise, obtain IP settings from your network administrator. Supports IPV4 and IPV6.
   - **eth1** – Front Ethernet port. Fixed IP address 10.10.0.1. Any device running a DHCP client, connected to this port, will be given an IP address. Supports IPV4.
   - **eth2** – USB port. Requires a USB Gigabit Ethernet adapter. IP settings assigned are automatically (DHCP), if your network supports this capability. Otherwise, obtain IP settings from your network administrator. Supports IPV4 and IPV6.
   - **wlan0** – USB port. For connecting (supported) Wi-Fi dongles. Fixed IP address 10.20.0.1. Any device running a DHCP client, connected to this port, will be given an IP address. Supports IPV4.
   - **wwan0** – Front USB port. For connecting a 4G USB cellular modem. Supports IPV4.

Home Page	The home page provides an overview of system status, and includes navigational links for controller configuration.
System Configuration	Use this section to interrogate the system, and to make changes or reprogram the system factory default parameters. Administrators can program basic system parameters, network configuration, system voltages, system calibrations, generator configuration, rectifier's configuration, solar chargers configuration, DC-DC converters configuration, battery configuration, battery test and battery boost configuration, symmetry configuration.
Alarm Configuration	Use this section to configure the system LVD devices and system alarm tables, to create/delete and to enable/disable alarms and alarm groups, enable/disable inputs and outputs of the system, program alarm parameters and severity levels for AC mains alarm, generator alarm, rectifiers alarm, solar chargers alarm, DC-DC converters alarm, load alarm, battery alarm, inputs/outputs alarm, and control system alarm.
Logs	This section is read-only. Use this section to view and save logs about events, data, energy, mains, generators, battery cycles, battery tests, battery run time, output run time, and DoD cycle count. To access the change log and accounts logs, you must be logged in as an administrator.
Commands	Use this section to execute commands to start and stop specific functions of the power system. Commands include resetting alarms, starting/stopping battery tests, starting/stopping battery boost, resetting system configuration, and executing relay tests; loading and saving configuration files are also performed in this category.
Logout/Login	Use this button to log in or log out of the controller. You must be logged in as administrator, in order to configure the controller.

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