Majortel Systems: Full Content Explanation

Date and Time

The date/time should be programmed and stored in the system. The D/T will be used for alarm file time stamping. This status parameter is shown on the main screen of the MTS-Com controller.

Voltage Output

Float: A float voltage is the normal charge voltage for the application. Users can program this voltage using the front panel or web page application.

Equalize: The equalize voltage can be used for applications requiring a temporary elevated charge voltage. Users should consult the battery manufacturer for specific details related to equalize charge routines.

High Voltage Rectifier Shutdown

High voltage shutdown setting will trigger self-protection mode in a system. This programmable setting is used by a controller when monitoring the overall bus voltage. If high voltage is detected, the voltage from each rectifier will cease output operation to protect the load and system.

System DC Voltage Triggers

DC High:

High alarms trigger when the bus sensor detects voltage above the set point.

DC Low:

Low alarms trigger when the bus sensor detects voltage below the set point. The alarms clear automatically when the voltage returns to normal.

Current Output

Summary System Monitor

Summary current indications are displayed on the system monitor. This current measurement is a combination of the output current, as reported by each rectifier to the central controller.

Battery Current Draw Monitor

Battery current is measured using a shunt that is in series with the battery circuit. Battery current draw indication is used to predict run-time, current limit or recharge duration.

Majortel Systems: Full Content Explanation

Alarm Summary Indicator
Major Class – presents a red LED on the front panel.
Minor Class – presents a yellow LED on the front panel.

Alarm Relay Mapping
Operators use this option to establish mapping of specific alarms onto one of two dry-contact relays. In addition to mapping an alarm to a relay, the alarm level can be classified as either major, minor or ignore.
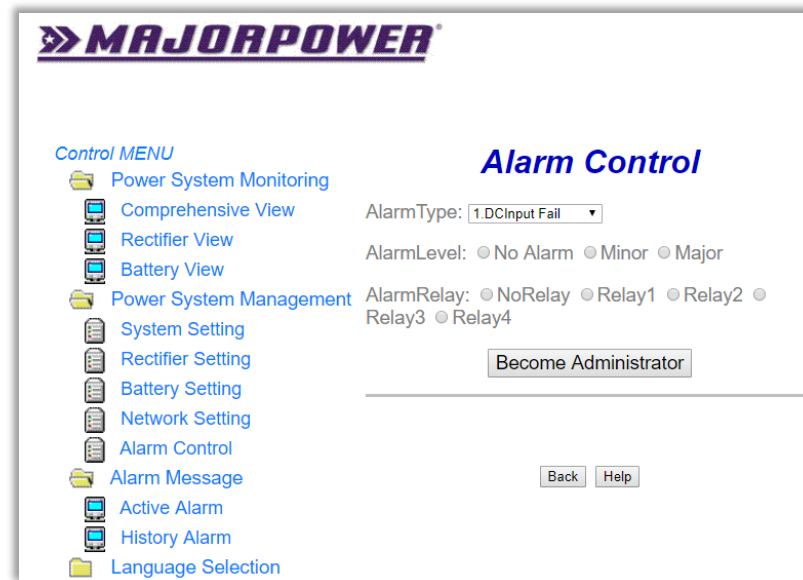
Alarm Relay Position* – Normal Status
All Majortel Systems ship with relay positioning set to **Normal-Close** operation. Relay status position can be programmed using the front panel buttons on the MTS-Com. Dry-contacts are designed to make or break the alarm circuit supplied by the operator installation.

Alarm Tone On/Off
Operator programmable option for the audible alarm tone. Default setting is OFF. Active alarm audible tones will time out after 75 seconds. The active alarm will remain on the active status page.

Alarm Active Status
View the active alarms for the system being monitored.

Alarm History File Clearing
The alarm history table will store 200 events. Each event receives a time stamp. Round file operation will overwrite the oldest table entry.
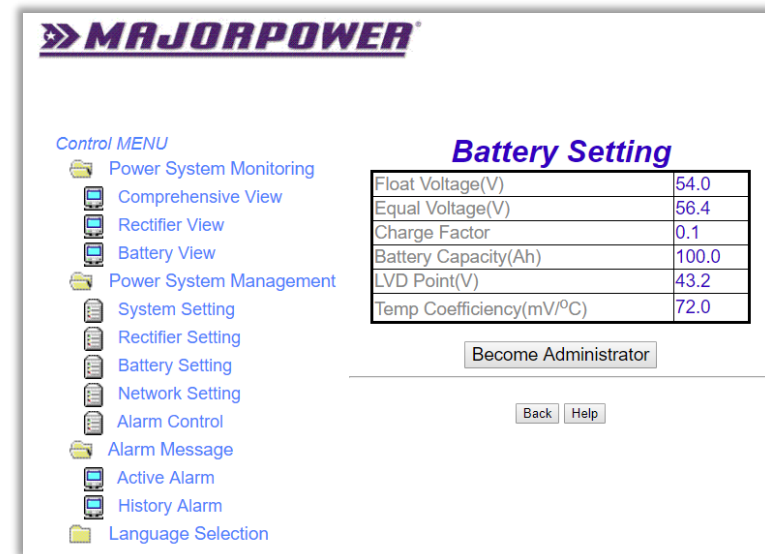
Charge Rate and Current Limit
Reference Tech App Note AN-010-14N for a detailed description of charging parameters.

Force Equalize Charge*
Define interval in days.
Waiting period, in days, between pre-programmed charge routines.
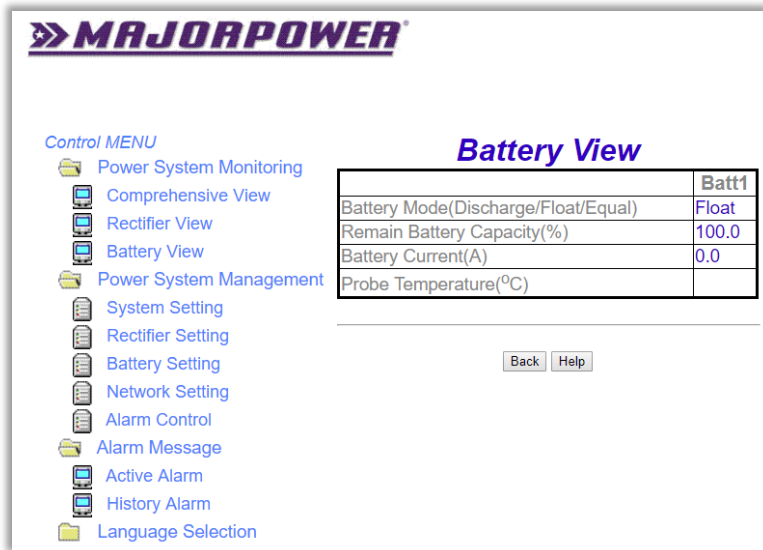
Define time limit*
The time in minutes before an equalize charge will cease and the system returns to float voltage operation.

Battery Size
Operator programmed battery size based on the installation. Numerical value in Amp-Hours. This value is important to the calculation of the current limit function during recharge.

Battery View

	Batt1
Battery Mode(Discharge/Float/Equal)	Float
Remain Battery Capacity(%)	100.0
Battery Current(A)	0.0
Probe Temperature(^{O}C)	

Back Help

Control MENU
- Power System Monitoring
  - Comprehensive View
  - Rectifier View
  - Battery View
- Power System Management
  - System Setting
  - Rectifier Setting
  - Battery Setting
  - Network Setting
  - Alarm Control
- Alarm Message
  - Active Alarm
  - History Alarm
- Language Selection

Low Voltage Battery Disconnect trigger

The voltage set in this parameter is used by the controller to open the internal contactor in the battery circuit. The contact will close the circuit after a system bus voltage is normal. Typical disconnect voltage is calculated by using 1.75 volts per cell for the battery installation. By example, in a telecom network configuration, 24 cells X 1.75 volt equals a 42V trigger setting to open. *(MTS-130V excluded)*

Ambient Temperature Monitoring

A temperature probe is shipped with each Majortel dc power system. Once the probe is connected, the system will register the ambient temperature measured in the location and display this information. The probe is equipped with a 3 meter cable which allows positioning near the battery. The registered temperature is also used by the controller for the temperature compensation calculations and voltage adjustment.

Temperature Compensation Operation
Define center temperature:
  Default center temperature setting is 25° C.

Define compensation coefficient
  User defined parameter used in the calculation to modify charge voltage in relationship to the change of temperature as measured. This setting will affect system overall voltage.
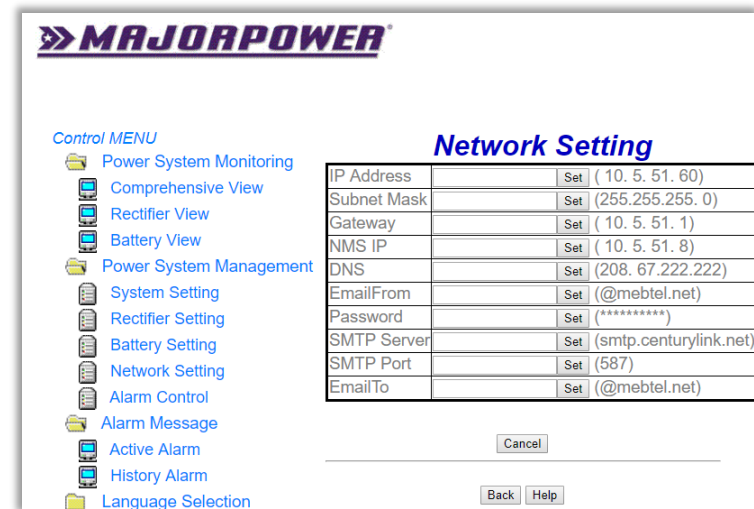
User and Supervisor Passwords*

Two password levels in the Majortel controller.
The user level password is used for basic monitoring.
The supervisor level password includes system settings and password control options.

Firmware Revision

This is a *read only* field for viewing firmware installed in the controller being monitored.

Network Controls

IP Address / Network Mask / Gateway / Email

Network Setting

IP Address	Set	(10. 5. 51. 60)
Subnet Mask	Set	(255.255.255. 0)
Gateway	Set	(10. 5. 51. 1)
NMS IP	Set	(10. 5. 51. 8)
DNS	Set	(208. 67.222.222)
EmailFrom	Set	(@mebtel.net)
Password	Set	(**********)
SMTP Server	Set	(smtp.centurylink.net)
SMTP Port	Set	(587)
EmailTo	Set	(@mebtel.net)

Cancel

Back Help

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MTS-Com web screen refresh is built for 90 second cycles. The long refresh window allows administrator access time to make and save changes.

* Local Access: Management on-site with administrator privileges.
** Sample screens above may change based on system type and firmware load.