

# MPR-9800

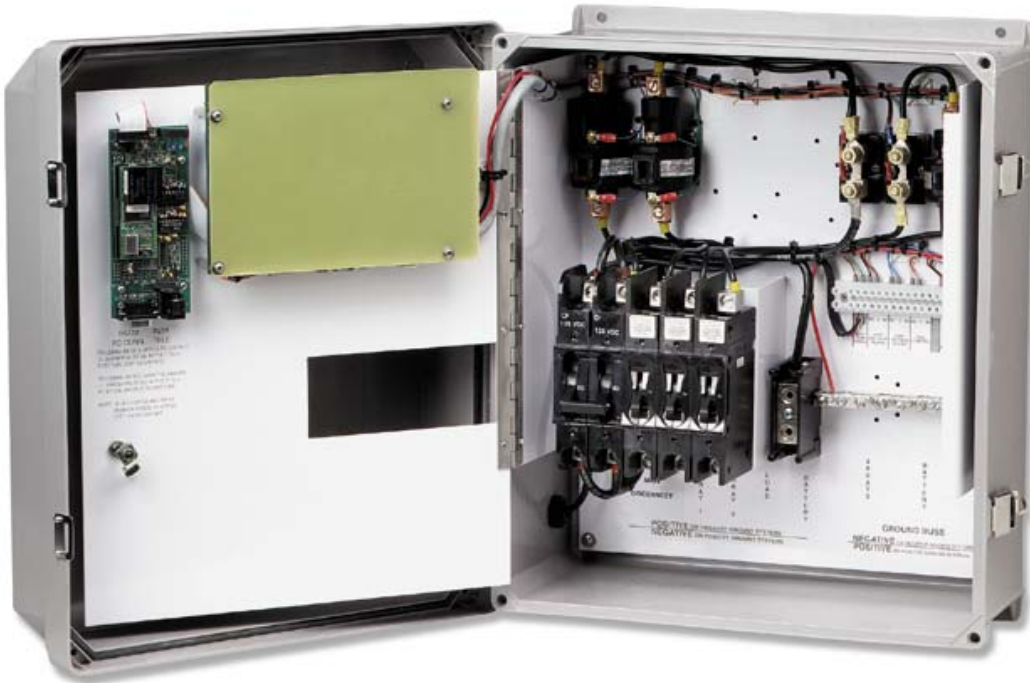


(Hinged door panel is optional and does not appear on all systems)

The MPR-9800 Advanced Photovoltaic System Controller from Digital Solar Technologies is the turn-key solution for all of your remote power station monitoring and control requirements.

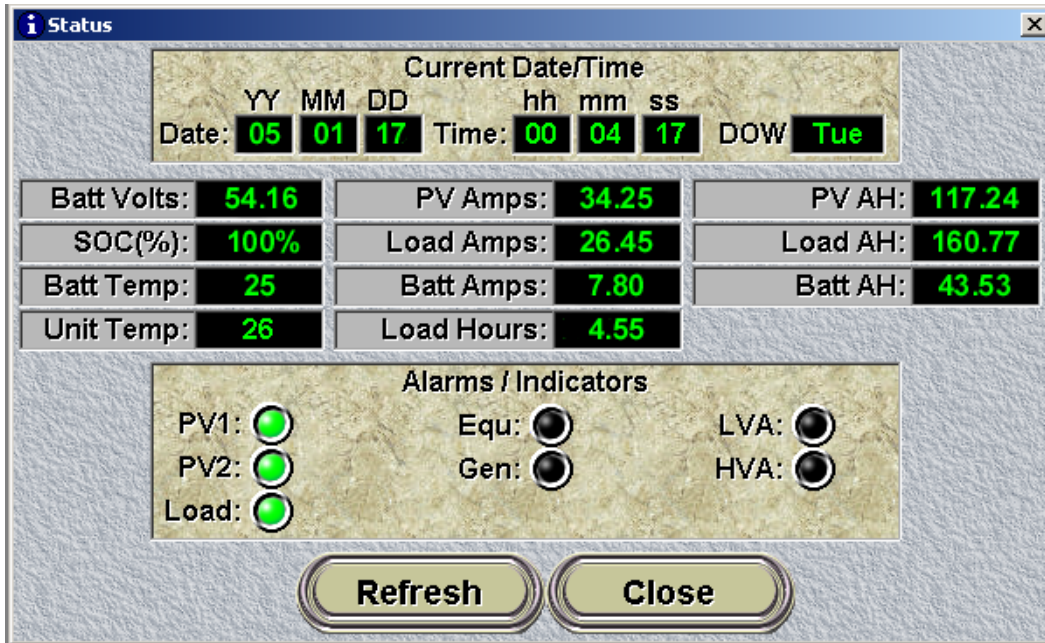
**Key features of the MPR-9800 controller and software include:**

- Modular design allows flexible configuration of PV arrays, load, generator, and devices.
- Supports Boost, Equalize and Float charging of batteries with staged taper charge and pulsed finish charge, by EBBM charging algorithm.
- May accommodate up to three 10 amp to 300 amp simultaneous PV array inputs at 12, 24, 36, or 48 volts DC, positive- or negative-ground.
- Real-time load disconnect / reconnect capability.
- Provides startup/shutdown signals for a generator with scheduled periodic maintenance runs.
- Provides manual or automatic battery cell equalization functionality.
- Supports serial communications for monitoring via modems, direct-cable, or wireless RF.
- Serial network compatibility of addressing thousands of controllers on a single network.
- Optional Ethernet connectivity supports local- or wide-area Ethernet networks (internet).
- Ethernet-connected units provide real-time alarm reporting to one or more specified central offices via the SNMP networking protocol.
  - All major SNMP monitoring software packages supported.
  - Instant email forwarding of received alarm reports is provided if desired.

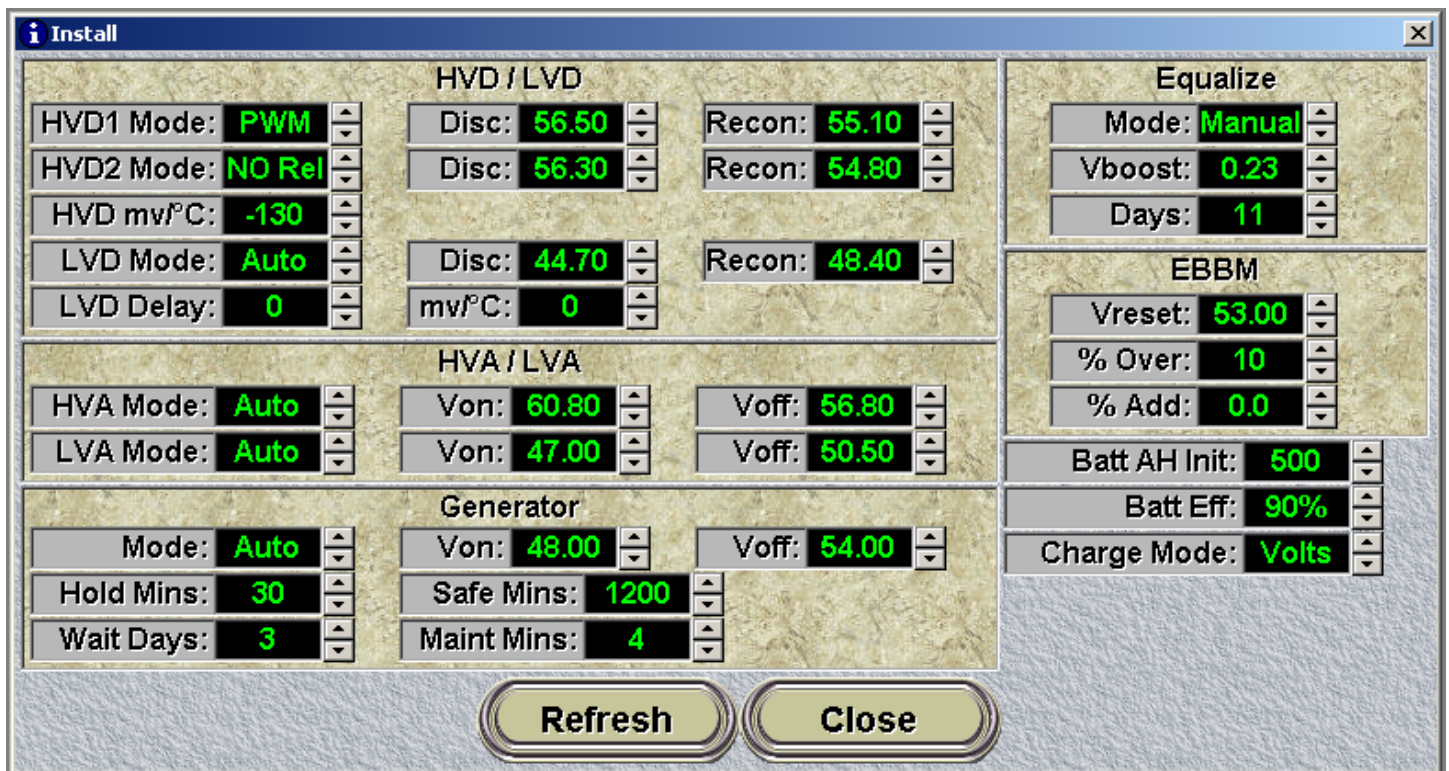


Shown with optional Ethernet  
(Hinged door panel is optional and does not appear on all systems)

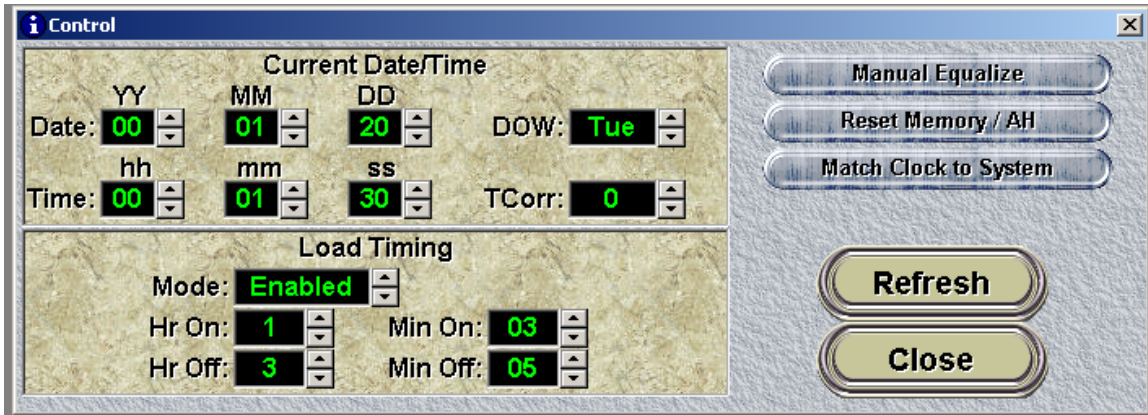
- For remote communications, the MprComm software provides a full graphical interface to all system parameters.
  - Continuous update of real-time operating parameters
  - Critical windows are password protected.
- Digital Solar Technologies has a proven track record of responsiveness in providing customer-requested software- and hardware configurations.



Communication with the MPR-9800's Status level displays real time system conditions.



The Install level allows set points and other parameters to be easily modified.



**Control**

**Current Date/Time**

Date: YY: 00 MM: 01 DD: 20 DOW: Tue

Time: hh: 00 mm: 01 ss: 30 TCorr: 0

**Load Timing**

Mode: Enabled

Hr On: 1 Min On: 03

Hr Off: 3 Min Off: 05

Manual Equalize

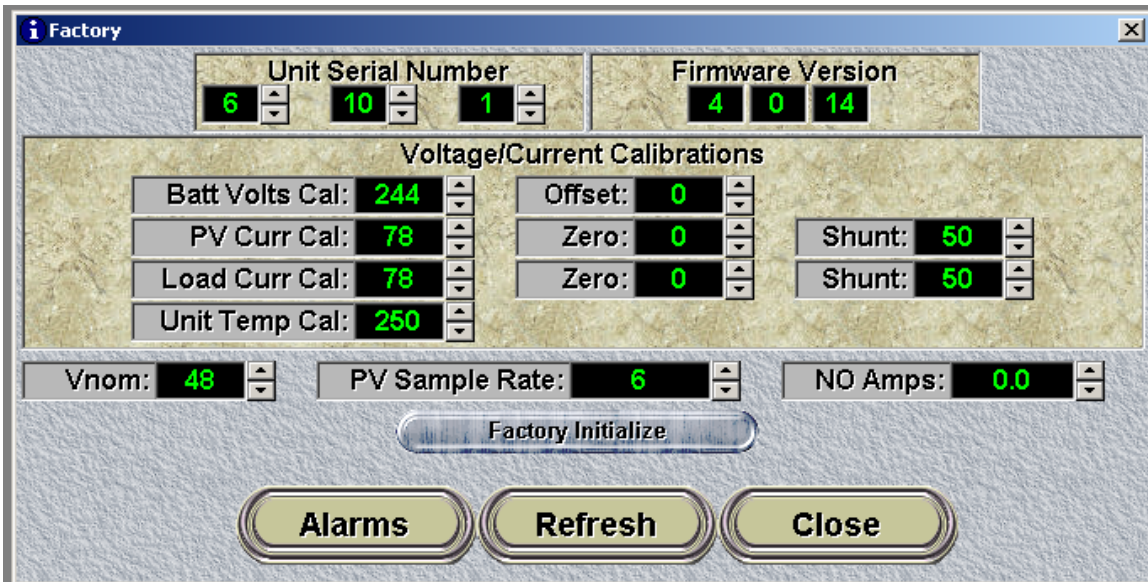
Reset Memory / AH

Match Clock to System

Refresh

Close

The Control level allows date and time settings, Load timing if needed, memory level re-set and forcing manual equalization.



**Factory**

Unit Serial Number: 6 10 1

Firmware Version: 4 0 14

**Voltage/Current Calibrations**

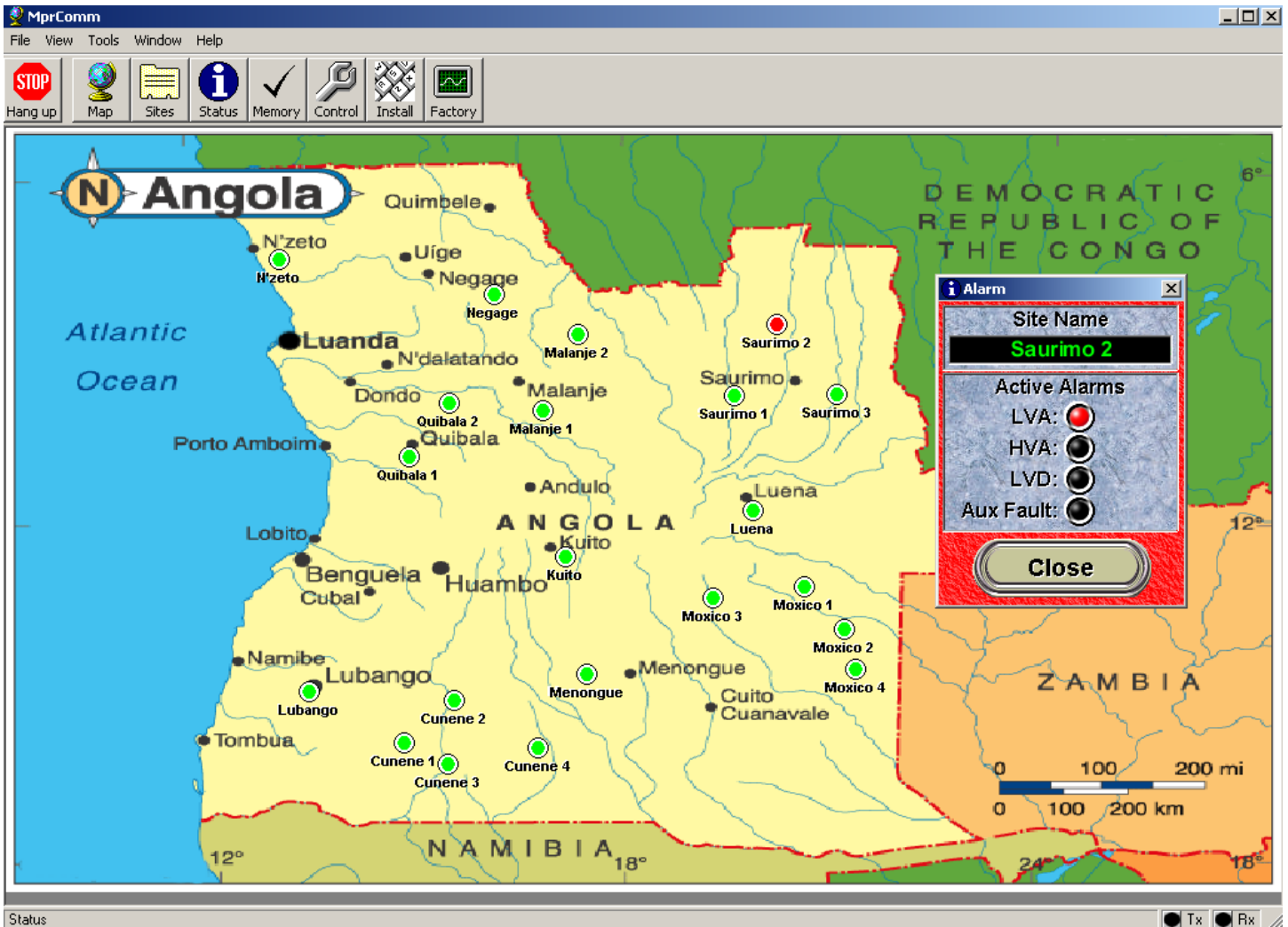
Batt Volts Cal: 244	Offset: 0	Shunt: 50
PV Curr Cal: 78	Zero: 0	Shunt: 50
Load Curr Cal: 78	Zero: 0	
Unit Temp Cal: 250		

Vnom: 48 PV Sample Rate: 6 NO Amps: 0.0

Factory Initialize

Alarms Refresh Close

The Factory Level is used for calibrating voltages, currents and setting shunt values etc.



MprComm software provides full site mapping functionality.

- All remote sites may be created on the site map. Connection to the site is accomplished by simply double clicking on the site's icon.
- When an alarm is transmitted from the MPR-9800, the site's icon will turn red and the alarm information is displayed.
- Supports multiple map images, with each regional image containing its own collection of MPR-9800 site icons.



From	Subject	Received
Saurimo 2 MPR-9800	MPR-9800 Alarm	1/18/2006 3:25 PM
Quibala 1 MPR-9800	MPR-9800 Alarm	1/18/2006 3:17 PM
Saurimo 2 MPR-9800	MPR-9800 Alarm	1/18/2006 3:16 PM

**From:** Saurimo 2 MPR-9800 **To:** John Faulkner  
**Subject:** MPR-9800 Alarm

**Site Name:** Saurimo 2  
**Alarm Received:** Wednesday, 18 January 2006, 15:25:18

**Alarm Description:**  
The system voltage is low (LVA)

Using the Ethernet option with SNMP alarm traps, The SNMP management software provided will automatically alert technicians of a site's problem.

- Automatic email capability for received alarms.
- Any number of clients/offices may be emailed when an alarm is received.
- Alarm descriptions may be modified to support different languages.



Digital Solar Technologies  
5775 Arapahoe Ave  
Boulder, CO 80303  
Tel: (303) 442-6553  
Fax: (303) 442-6555  
Web: [www.digitalsolar.com](http://www.digitalsolar.com)  
Email: [dpringle@sdicomtech.com](mailto:dpringle@sdicomtech.com)