

Cx / EPA1500 MONITOR

INSTALLATION INSTRUCTIONS OF THE POWER ANALYZER



monitoring services

CAUTION-CAUTION-CAUTION

READ THROUGH THE INSTRUCTIONS CAREFULLY AND ALWAYS ABIDE BY LOCAL ELECTRICAL CODES.

RxMS CAN NOT BE HELD RESPONSIBLE FOR IMPROPER INSTALLATION AND/OR INJURY.

Always Power Down All Electrical Circuits Before

INSTALLATION

System must be powered from grounded receptacle. These steps require system-trained or local qualified personnel only!

Rev02

July 08, 2011





Quick Reference Guide for the Power Monitor: Please refer to the Installation Instructions for full details on how to install the Power Monitor. (Attached)

Cx / EPA1500 MONITOR



- 1. Unpack the Power Monitor
- 2. Power down load and turn off the power at the main circuit breaker
- 3. Connect the Voltage Leads
- 4. Connect the Current Probes
- 5. Connect Current Probe Power Supply
- 6. Connect the Temp/Hum Probe
- 7. Power up the Power Monitor
- 8. Power up Load Circuit and System
- 9. Fill out Site Info and Detailed Site Log
- 10. Let the monitor run for approximately a week and then uninstall the Power Monitor.

DANGER! HIGH VOLTAGE!

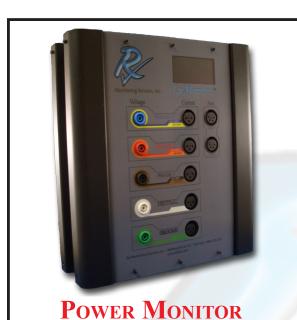
The above steps require system-trained personnel or local qualified personnel only. (i.e. a local electrician)



July 08, 2011











Connect Banana Leads

1. <u>Unpack the Power Monitor:</u>

- a. Check the packing list to make sure all of the requested equipment was received.
- b. Position near the connection point to be tested (be sure the Power Monitor is positioned in an area where it will not be dropped or interfered with).

2. <u>Power down load and turn off the</u> power at the main breaker.

3. <u>Connect the Voltage Leads:</u>

For Hard Wired Voltage Setups:

- a. Power down load and turn off the power at the main circuit breaker.
- b. Connect the L1, L2 and L3 voltage leads (alligator clip or strip) to the main circuit breaker. Connect the N lead to the Neutral bar (if present), and the G lead to the main chassis or the Ground bar.
- c. Connect the other end of the voltage leads (right-angle banana plug) into their corresponding color-coded ports on the front panel of the Power Monitor.

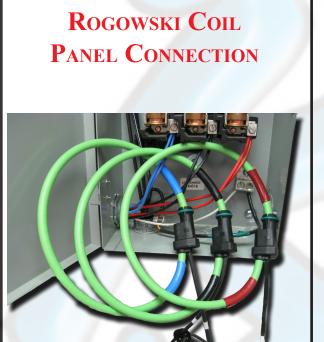
July 08, 2011



For A/C Breakout Adapter Voltage Setups:

Cx / EPA1500 MONITOR

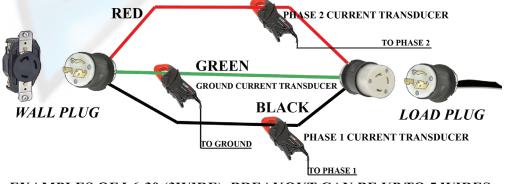
- a. If you are using an A/C adapter provided by RxMS, unplug your equipment from the wall or from the Power Conditioner.
- b. Plug your equipment into the female end of the A/C adapter, and plug the male end of the A/C adapter into the receptacle.
- c. Connect the end of the voltage leads (right-angle banana plug) into their corresponding color-coded ports on the front panel of the Power Monitor.



4. Connect the Current Probes:

- a. Please note that connecting the current probes is a crucial part of the data gathering process; please make sure you connect them to ensure that all supporting data is gathered.
- b. Connect the current probes around L1, L2, L3, N and G (or all applicable phases) and make sure that there is only one phase in each current probe.
- c. If you are using an A/C adapter provided by RxMS, please refer to the Current Transducer Connections chart to ensure that you are clamping the current probes to the correct location.

CURRENT TRANSDUCER CONNECTIONS FOR BREAKOUT CABLE (VOLTAGE CONNECTION NOT SHOWN)



EXAMPLES OF L6-30 (3WIRE), BREAKOUT CAN BE UP TO 5 WIRES







- d. Make sure that each current probe is connected to the correct phase and that the direction of the arrow on the probe is pointing toward the load.
- e. Plug the connector end of the current probes into their corresponding ports on the front of the Power Monitor (to the right of the color-coded voltage ports).

Current Probes & Settings: Phases and Neutral will both have the same settings.

For Phases Testing: Make sure the Three-wired rope probe is set to 3000A (1mV/A) or 6000A (0.5mV/A).

For Neutral Testing: Make sure the Single-wired rope probe is set to 3000A (1mV/A) or 6000A (0.5mV/A).



ADANGER ADANGER HIGH VOLTAGE

For Ground Current Testing: Use either the AEMC current probe or use the Neutral Single wire rogowski probe and change the setting to 300A (10MV/A).

Cx / EPA1500 MONITOR

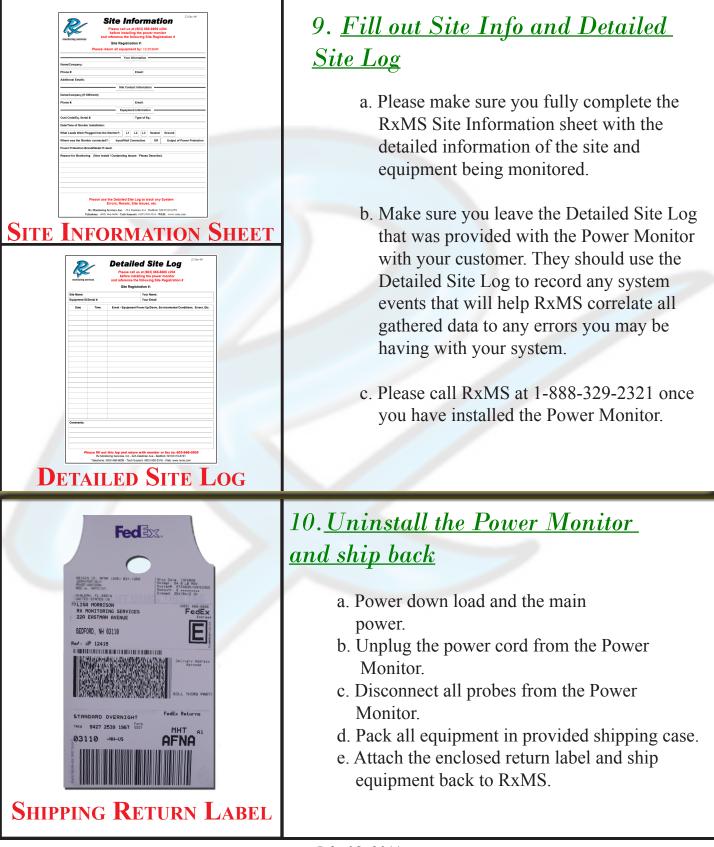


4	
HIGH OLTAGE	

Cx / EPA1500 MONITOR

C Power Supply	CONNECT IEC	L
	 7. <u>Power up the Power Monitor</u> a. Plug in the external power supply IEC connection from either the A/C breakout adapter (if applicable) or the supplied IEC cord. b. Plug the male external power supply plug into the Power Monitor. 8. <u>Power up load circuit and system</u> 	
Volts: 0/ 0 Volts: 0/ 0 Volts: 0/ 0)
Temp/Hum:/ 7/13/09 12:10	Volts: ###/ / For single phase with black	_
SAMPLE READING	Curr: L1 / / lead connected only. Volts: ###/ / For single phase two pole with black and red leads connected. Volts: ###/###/### For 3 phase with black, red, curr: L1 / L2 / L3 July 08, 2011 July 08, 2011 L1 / L2 / L3	

7



July 08, 2011

8