# PowerLogic<sup>TM</sup> Series EM4000/EM4800 Multi-Circuit Meters

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# **Safety Information**

## **Important Information**

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of either symbol to a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

## 

**DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

## **A** WARNING

**WARNING** indicates a potentially hazardous situation which, if not avoided, can result in death or serious injury.

## 

**CAUTION** indicates a potentially hazardous situation which, if not avoided, can result in minor or moderate injury.

## NOTICE

**NOTICE** is used to address practices not related to physical injury. The safety alert symbol shall not be used with this signal word.

## **Please note**

Electrical equipment should be installed, operated, serviced and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

# **Notices**

## FCC Part 15 Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- · Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.

## FCC Part 68 Notice

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the Administrative Council for Terminal Attachments (ACTA). On the side of this equipment is a label that contains, among other information, a product identifier in the format US: AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

This equipment uses the following Universal Service Order Codes ("USOC") jacks: RJ11.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug or compliant modular jack is provided with this product.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. The REN for this product is part of the product identifier that has the format US: AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3).

If this equipment, Digital Power Meter with Internal Modem, causes harm to the telephone network, the telephone company will notify you in advance that service may be temporarily discontinued. When advance notice is not practical, the

telephone company will notify you as soon as possible. You will also be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of this equipment. If this happens, the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If you experience trouble with this equipment, Digital Power Meter with Internal Modem, please contact Schneider Electric at 615-287-3400. If this equipment is causing harm to the telephone network, the telephone company may request that you disconnect this equipment until the problem is resolved.

There are no user serviceable parts in this equipment.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your premises has specially wired alarm equipment connected to the telephone line, ensure that the installation of this Digital Power Meter with Internal Modem does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

## Network Compatibility Notice for the Internal Modem

The internal modem in meters equipped with this option is compatible with the telephone systems of most countries in the world, with the exception of Australia and New Zealand. Use in some countries may require modification of the internal modem's initialization strings. If problems using the modem on your phone system occur, please contact Schneider Electric Technical Support.

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## PowerLogic configuration tool

This document describes how to configure the PowerLogic EM4000/EM4800 Series meters, using the PowerLogic configuration tool. It includes the following configuration tool information:

- "System Set-up and Description" on page 1
- "Configuration and Programming" on page 1
- "Display Navigation" on page 3
- "Communications Connections" on page 5
- "Configuring the Meters" on page 7
- "Login" on page 7
- "Connecting to a Meter" on page 8
- "Unit Field Configuration Tab" on page 10
- "Manufacturing Tab" on page 19
- "Meter Points (Circuits) Tab" on page 21
- "Pulse Probes Tab" on page 24
- "Completing the Meter Configuration" on page 26

This documentation is intended for those responsible for configuring the PowerLogic meters.

## System Set-up and Description

The configuration tool supports the following PowerLogic meters

- PowerLogic EM4000 Series: PowerLogic EM4033 and EM4080 meters
- PowerLogic EM4800 Series: PowerLogic EM4805, EM4833, and EM4880 meters

Depending on how the meters are installed and configured, they can meter 8, 12, or 24 individual meter points. The PowerLogic meters are designed for residential, commercial, and industrial use and display the power and consumption readings for each measurement point.

## **Configuration and Programming**

The configuration tool is used to set any of the programmable parameters of the PowerLogic EM4000/EM4800 Series meter. The combination of the configuration tool and the state of the meter programming switches determine which parameters can be set or changed. As shown in Figure 1, the programming switches are two-position DIP switches labeled SW1, and are located inside the meter cover below the Display button. To enable meter configuration, both switches must be physically set to the ON (down) position (default).





Table 1 lists the programming capabilities associated with each parameter in combination with the programming switches. After the meter has been programmed, the programming switches can be turned OFF to prevent tampering with metering parameters.

| Table 1: | Programming | access to | meter | parameters |
|----------|-------------|-----------|-------|------------|
|----------|-------------|-----------|-------|------------|

| Parameter               | Read access        | Write access       | Activation time |
|-------------------------|--------------------|--------------------|-----------------|
| Meter name              | Configuration tool | Configuration tool | Immediate       |
| Badge number            | Configuration tool | Configuration tool | Immediate       |
| Phone number            | Configuration tool | Configuration tool | Immediate       |
| Alternate phone number  | Configuration tool | Configuration tool | Immediate       |
| AT string               | Configuration tool | Configuration tool | Immediate       |
| Host upload directory   | Configuration tool | Configuration tool | Immediate       |
| Host download directory | Configuration tool | Configuration tool | Immediate       |
| Host IP address         | Configuration tool | Configuration tool | Immediate       |
| PPP user name           | Configuration tool | Configuration tool | Immediate       |
| PPP password            | Configuration tool | Configuration tool | Immediate       |

| Parameter                        | Read access                           | Write access                         | Activation time |
|----------------------------------|---------------------------------------|--------------------------------------|-----------------|
| FTP user name                    | Configuration tool                    | Configuration tool                   | Immediate       |
| FTP password                     | Configuration tool                    | Configuration tool                   | Immediate       |
| Daily report interval start time | Configuration tool                    | Configuration tool                   | Immediate       |
| Daily report interval end time   | Configuration tool                    | Configuration tool                   | Immediate       |
| Report period                    | Configuration tool                    | Configuration tool                   | Immediate       |
| Report interval in minutes       | Configuration tool                    | Configuration tool                   | Immediate       |
| PT ratio                         | Configuration tool                    | Configuration tool + prog. switch ON | Immediate       |
| Default IP address               | Configuration tool                    | Configuration tool                   | Immediate       |
| Default netmask                  | Configuration tool                    | Configuration tool                   | Immediate       |
| Default gateway                  | Configuration tool                    | Configuration tool                   | Immediate       |
| Reset dial readings              | No Access                             | Configuration tool + prog. switch ON | Immediate       |
| Send PC time                     | No Access                             | Configuration tool                   | Immediate       |
| Programming switch state         | Configuration tool                    | No Access                            | Immediate       |
| MAC address                      | Configuration tool                    | No Access                            | Immediate       |
| Report types                     | Configuration tool                    | Configuration tool                   | Immediate       |
| Manufacturing                    | · · · · · · · · · · · · · · · · · · · |                                      |                 |
| Serial number                    | Configuration tool                    | No Access                            | N/A             |
| Part number                      | Configuration tool                    | No Access                            | N/A             |
| Model number                     | Configuration tool                    | Configuration tool + prog. switch ON | After reset     |
| Revision                         | Configuration tool                    | No Access                            |                 |
| Firmware revision                | Configuration tool                    | No Access                            | N/A             |
| Build number                     | Configuration tool                    | No Access                            |                 |
| Meter and probe points           |                                       |                                      |                 |
| Name                             | Configuration tool                    | Configuration tool                   | After reset     |
| CT 1 current                     | Configuration tool                    | Configuration tool + prog. switch ON | After reset     |
| CT 2 current                     | Configuration tool                    | Configuration tool + prog. switch ON | After reset     |
| CT 3 current                     | Configuration tool                    | Configuration tool + prog. switch ON | After reset     |
| CT 1 phase                       | Configuration tool                    | Configuration tool + prog. switch ON | After reset     |
| CT 2 phase                       | Configuration tool                    | Configuration tool + prog. switch ON | After reset     |
| CT 3 phase                       | Configuration tool                    | Configuration tool + prog. switch ON | After reset     |

## **Display Navigation**

The display on the front of the meter provides status information for each circuit, and general information for metering. The PowerLogic meter has three buttons for navigating: a Display button, and left  $\leftarrow$  and right  $\rightarrow$  arrow buttons. The display has a normal and a diagnostics mode.

### Normal Mode

In Normal mode, the Display button scrolls through the information for each meter. The left  $\leftarrow$  and right  $\rightarrow$  arrow buttons select the previous or next meter points respectively. The following information is available:

- · Real Energy Delivered kWh D
- Real Energy Received kWh R
- · Real Power Watts
- Reactive Energy Delivered kVarhD
- Reactive Energy Received kVarhR
- Reactive Power Var
- Peak Demand PeakW (Watts)

In Normal mode, the right and left arrow buttons scroll the display from meter points 1 to 8, 1 to 12, or 1 to 24, depending on your configuration.

## **Diagnostics Mode**

Diagnostics mode is accessed by pressing and holding the Display button for 5 seconds. In Diagnostics mode, pressing the Display button will scroll through the following information in addition to the Normal mode data:

- Send data command
- CT Primary value and Real Power (Watts) per phase
- Current (Amps) per phase
- Power Factor (pf) per phase
- Phase angle (Degrees) per phase
- Voltage per phase
- Local IP address
- Reset factory default IP address command
- Verify
- Badge #
- Date and time (UTC)

In Diagnostics mode, the right and left arrow buttons scroll the display from meter 1 through N. When the local IP address is shown on the LCD, use the right and left arrow buttons to scroll through the following information:

- · Remote host server IP address
- Time server IP address
- Default IP address
- Default NetMask
- Default gateway
- PPP user name
- Phone number
- AT command string
- Alternate phone number
- Unit serial number
- Firmware build number

- Ethernet port MAC address
- · Firmware revision
- Potential transformer ratio

## **Communications Connections**

If you are configuring the meter at an installation site, see the *PowerLogic EM4000 Series Meter Installation Guide* or the *PowerLogic EM4800 Series Meter Installation Guide* for instructions on connecting the power. Power connections vary depending on whether the meter is configured for single-phase or three-phase operation.

If you are pre-configuring the meter in the shop, only Phase A, Neutral, and protective earth connections are required to power up the meter for configuring.

The PowerLogic EM4000/EM4800 Series Configuration Tool runs on a Windows PC and communicates with the PowerLogic meters through an Ethernet network connection. A network connection can be accomplished in two ways: either Direct, or by connecting to a LAN (Local Area Network).

#### **Direct Connection Ethernet Requirements**

| HAZAF              | RD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH  |
|--------------------|--|
| •                  | Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E. |
| •                  | This equipment must only be installed and serviced by qualified electrical personnel.                          |
| •                  | Turn off all power supplying this equipment before working on or inside equipment.                             |
| •                  | Always use a properly rated voltage sensing device to confirm power is off.                                    |
| •                  | Replace all devices, doors and covers before turning on power to this equipment.                               |
| •                  | The meters must be connected to the sense voltage and control voltage through a properly rated disconnect.     |
| Failure<br>injury. | to follow these instructions will result in death or serious   |
| -                  |  |

To connect a PC directly to the PowerLogic meter:

- 1. Disconnect power from the meter with the installed breaker or disconnecting device. Use a properly rated voltage sensing device to confirm power is off.
- 2. Remove the outer cover.
- If you are changing parameters that require the programming switch to be on, remove the inner cover and ensure the programming switches are in the ON position.
- 4. Re-install the inner cover.
- Remove the local LAN Ethernet cable if present and connect the CAT 5 Ethernet cable between the PC and the PowerLogic meter. If the PC does not have auto-crossover detection, an Ethernet crossover cable will be required.
- 6. Restore power to the meter.

 Assign the PC a static IP address such that the first three segments are the same as the default IP address, and the last segment is different from the default IP address.

For example, 169.254.0.xxx, where xxx differs from the last segment of the default IP address.

Enter 255.255.255.0 into the subnet mask field.

For Windows 7 users, you must enter the IP address of the meter into the Default Gateway field.

- 8. Configure the meter. See "Configuring the Meters" on page 7 for configuration instructions.
- Remove power. Use a properly rated voltage sensing device to confirm power is off.
- 10.If you wish to lock the configuration parameters, remove the inner cover and move the programming switches (SW1) to the OFF (up) position.
- 11.Re-install the inner cover.
- 12.Connect the LAN Ethernet cable if present.
- 13.Re-install the outer cover.
- 14.Restore power.

NOTE: All PowerLogic meters have a default IP address of 169.254.0.10 in the absence of a DHCP service.

#### **Network Connection Ethernet Requirements**

|                    | A DANGER   |
|--------------------|--|
| HAZAF              | RD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH  |
| •                  | Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E. |
| •                  | This equipment must only be installed and serviced by qualified electrical personnel.                          |
| •                  | Turn off all power supplying this equipment before working on or inside equipment.                             |
| •                  | Always use a properly rated voltage sensing device to confirm power is off.                                    |
| •                  | Replace all devices, doors and covers before turning on power to this equipment.                               |
| •                  | The meters must be connected to the sense voltage and control voltage through a properly rated disconnect.     |
| Failure<br>injury. | e to follow these instructions will result in death or serious   |

To connect the PowerLogic meter to the network:

- 1. Turn off power to the meter with the installed breaker or disconnecting device. Use a properly rated voltage sensing device to confirm power is off.
- 2. Remove the outer cover.
- 3. If you are changing parameters that require the programming switch to be on, remove the inner cover and ensure the programming switches are in the ON position.

- 4. Re-install the inner cover.
- 5. Using a CAT 5 Ethernet patch cable, connect the meter and the PC to a local Ethernet switch.
- 6. Re-install the outer cover.
- Restore power. When control power is restored, the meter will receive an IP address from a local DHCP server. This IP address can be viewed from the Diagnostics menu.

NOTE: To use a static IP address, have your local network administrator assign the desired IP address to the MAC address of the meter in the DHCP server configuration. To display the MAC address, see "Display Navigation" on page 3.

## **Configuring the Meters**

The PowerLogic EM4000/EM4800 Series configuration tool is available on the CD shipped with each unit, and is used to configure all programmable parameters listed in Table 1.

NOTE: Disable any firewall software on your PC before attempting to connect to a meter using the configuration tool.

### Login

Use the following procedure to log in to the meter.

- 1. Establish an Ethernet network connection with the meter using one of the methods described in "Communications Connections" on page 5.
- Ensure the programming switches are in the ON position. The programming switches are two-position DIP switches labeled SW1, and are located inside the meter cover below the Display button. To enable meter configuration, both switches must be physically set to the ON position. When both switches are in the OFF position, meter configuration is disabled.
- Start the configuration tool by entering "PowerLogic" as the User Name, and "E4800" as the Password (see Figure 2). Click Ok.

#### Figure 2: Login screen

| EM4800 Configuration Tool Login | ×                     |
|---------------------------------|-----------------------|
| User Name:                      | Ok                    |
| Password:                       | Cancel                |
|                                 | Schneider<br>Electric |
|                                 | Powered by 🕅 TRIACTA  |

4. The main window displays as shown in Figure 3.

| FM4800 Configuration Tool  |  |
|--|--|
|  |  |
| Unit Field Configuration   Manufacturing   Meter Points (Circuits)   Pulse Probes  | 1  |
| Current IP Address: 192.168.111.30<br>MAC Address: 002186000771<br>Revision:<br>Default IP Configuration<br>IP Address: 163.254.0.10<br>Netmask: 255.255.255.0<br>Gateway: 0.0.0<br>DNS Primary: 0.0.0<br>DNS Secondary: 0.0.0<br>IVCP Enabled   | Main Meter - 120V - WYE<br>PT Ratio: 1.00<br>Modem<br>Phone #:<br>Alternate Phone #:<br>AT String: ATX3<br>Wait for Dial Tone:<br>Host Server<br>IP Address: 206.191.53.50<br>Upload Directory: download |
| Report         Intervals       Types       Reporting Schedule       Calculations & Format       BACnet       Comms         Recording Interval in Minutes:       1       Image: Calculation of the second of th | Download Directory: upload<br>FTP Login<br>User Name: Schneider<br>Password: E4000t-1<br>PPP Login<br>User Name:<br>Password:<br>NTP Host (Time Server)<br>IP Address: 206,191.53.50                     |
| File loaded successfully!  | Unit Type: E488016   |

Figure 3: Configuration tool main window

## Connecting to a Meter

The configuration tool automatically detects and lists the PowerLogic meters on the same network segment as the PC. The configuration tool can also be used with meters on a different network.

To connect to a meter on the same network:

1. Click **Unit** in the menu bar, then select **List** from the drop-down menu. The Discovered Units window appears, displaying a list of meters available for configuration. See Figure 4.

| 🔡 Uni  | t Discovery      |                   |               |              |             |                  |               |               |          |        |        |
|--------|------------------|-------------------|---------------|--------------|-------------|------------------|---------------|---------------|----------|--------|--------|
|        | IP Address       | Model             | Name          | MAC Address  | Firmware    | Build            | Serial Number | Programmable? | SFG1     | SFG2   | Status |
| ►      | 192.168.111.168  | EM480520-3P-08    | EM480520-3P   | 0021B600007B | 1.47        | 1113             | 0211015155    | Prog On       | 9        | 1      | Found  |
|        | 192.168.111.72   | EM480516-3P-08    | EM480516-3P   | 0021B600007C | 1.47        | 1113             | 0211020308    | Prog On       | 8        | 1      | Found  |
|        | 192.168.111.24   | EM488026-3P-08    | EM488026-3P   | 0021B600007D | 1.40        | 1065             | 0211030302    | Prog On       | 6        | 1      | Found  |
|        | 192.168.111.152  | E488016-3P-08     | E488016-3P-08 | 0021B6002929 | 1.46        | 1105             | 0210470225    | Prog On       | 5        | 0      | Found  |
|        |                  |                   |               |              |             |                  |               |               |          |        |        |
| Interf | ace: Wireless Ne | stwork Connection | •             | Refresh      | 📙 🗖 Clear A | RP for discovery | 🔽 Load Co     | nfig Sp       | ecify Ca | ncel 0 | K      |

#### Figure 4: Discovered Units dialog box

- 2. Select the Load Unit Configuration check box, then click **Ok**. The main configuration tool window appears populated with the current programming information for the selected meter. See Figure 5.
- 3. Proceed to "Unit Field Configuration Tab" on page 10.

To connect to a meter on a different network:

1. Click **Unit** in the menu bar, then select **Connect** from the drop-down menu. The Connect to Unit window appears. See Figure 5.

#### Figure 5: Connect function window

| 🖶 Connect to Unit |         |
|-------------------|---------|
| IP Address:       | <b></b> |
| Connect           | Cancel  |

- 2. Enter the IP address of the meter to be configured, then click **Connect.** The configuration tool main window appears populated with the current programming information for the selected meter. See Figure 6.
- 3. Proceed to "Unit Field Configuration Tab" on page 10.

## Figure 6: Main configuration window with configured parameters

| 3 E4800 Configuration Tool   |  |
|--|--|
| Unit Help  |  |
| ✔ E4800 Configuration Tool         Unit       Help         Unit Field Configuration       Manufacturing       Meter Points (Circuits)       Pulse Probes         Current IP Address:       192.168.111.107         MAC Address:       002186002717         Revision: | Main Meter - 120V - WYE PT Ratio: 1000 Modem Phone #: Alternate Phone #: AT String: AT X3 Vait for Dial Tone: Host Server IP Address: 192.168.111.87 Upload Directory: download Download Directory: upload FTP Login User Name: Schneider Password: [E400t-1] PPP Login User Name: |
| C Arithmetic C Vector  | Password:<br>NTP Host (Time Server)<br>IP Address: 206.191.53.50   |
| File loaded successfully!  | Unit Type: EM403326  |

## **Unit Field Configuration Tab**

Use Table 2 to set meter configuration parameters in the Unit Field Configuration tab.

| Table 2: | Unit Field | Configuration | tab parameters |
|----------|------------|---------------|----------------|
|----------|------------|---------------|----------------|

| Field                    | Parameter                       | Description   |  |  |
|--------------------------|---------------------------------|---|--|--|
| Unit Field Configuration | Current IP Address              | The current IP address for the unit .This parameter is read only and cannot be changed by the user.   |  |  |
|                          | Mac Address                     | The current MAC address for the unit. This parameter is read only and cannot be changed by the user.  |  |  |
|                          | Revision                        | The revision number of the unit.  |  |  |
| Default IP Configuration | IP Address                      | The default IP address. This parameter is configured when DHCP has been disal<br>or DHCP services are not available on the network.   |  |  |
|                          | Netmask                         | The default subnet mask. This parameter is configured when DHCP has been disabled, or DHCP services are not available on the network.   |  |  |
|                          | Gateway                         | The default gateway. This parameter is configured when DHCP has been disabled, or DHCP services are not available on the network.   |  |  |
|                          | DNS Primary                     | The primary domain name server. This parameter is configured when DHCP has been disabled, or DHCP services are not available on the network.  |  |  |
|                          | DNS Secondary                   | The secondary domain name server. This parameter is configured when DHCP has been disabled, or DHCP services are not available on the network.  |  |  |
|                          | DHCP Enabled                    | If DHCP is not enabled, the meter uses the Default IP Configuration parameters. If DHCP is enabled, the meter uses the IP configuration parameters provided by the network DHCP service.  |  |  |
| Report                   | See "Report Parameters" on page | "Report Parameters" on page 12  |  |  |
| Main Meter               | PT Ratio                        | The main meter potential transformer ratio. This is an internal multiplier used by the meter for external potential transformers. External PTs can be used with a PT ratio of 1 if the billing system will apply the PT multiplier. |  |  |
|                          |                                 | Use a PT Ratio of 1 with no external PTs.   |  |  |
| Modem                    | Phone #                         | The phone number of your internet service provider's PPP service.   |  |  |
|                          | Alternate Phone #               | An alternate phone number of your internet service provider's PPP service.  |  |  |
|                          | AT String                       | AT command string to customize modem operation. Default string is ATX3, do not wait for dial tone.  |  |  |
|                          | Wait for Dial Tone              | Do not enable this parameter if the line has a broken dial tone due to a message waiting feature.   |  |  |
| Host Server              | IP Address                      | The IP address or domain name of the FTP server for data storage.   |  |  |
|                          | Upload Directory                | The sub-directory used for data reporting within the root directory. The root directory is determined by the FTP user name and the FTP server configuration. The FTP account must have write access to this directory.              |  |  |
|                          | Download Directory              | The sub-directory used by the meter to retrieve configuration updates. The FTP account must have read access to this directory  |  |  |
| FTP Login                | User Name                       | The user name for the FTP account.  |  |  |
|                          | Password                        | The password for the FTP account.   |  |  |
| PPP Login                | User Name                       | The user name for the PPP account. This is only required if using dial-up reporting.  |  |  |
|                          | Password                        | The password for the PPP account. This is only required if using dial-up reporting.   |  |  |
| NTP Host (Time Server)   | IP Address                      | The IP address of the NTP server that provides timing to the meter.   |  |  |

#### **Report Parameters**

The **Report** section in the main configuration window has six tabs:

- Intervals tab allows the user to configure the recording interval at which meter data is collected, and the demand interval for which demand readings are calculated. Figure 7 shows the Intervals tab, and Table 3 lists the configuration parameters within the tab.
- **Types** tab allows the user to define the metering data parameters that are to be logged on each recording interval, then reported per the Reporting Schedule. Figure 8 shows the Types tab, and Table 4 lists the configuration parameters within the tab.
- **Reporting Schedule** tab allows the user to configure how often the meter is to send recording interval data to a server. Figure 9 shows the Reporting Schedule tab, and Table 5 lists the configuration parameters within the tab.
- Calculations & Format tab allows the user to configure the type of power factor calculation and the display format for leading vs. lagging power factor. Figure 10 shows the Calculations & Format tab, and Table 6 lists the configuration parameters within the tab.
- **BACnet** tab allows the user to configure the BACnet Device interface. Figure 11 shows the BACnet tab, and Table 7 lists the configuration parameters within the tab.
- **Comms** tab allows the user to configure the communications module and change the Meter Utility Password. Figure 12 shows the Comms tab, and Table 8 lists the configuration parameters within the tab.

#### Figure 7: Intervals tab in the Report section

| Demand Interval Setup:<br>Block Demand Sliding Window Demand<br>Demand Interval in Minutes: 1 | Re | cording Interval in Minutes: 1         |
|---|----|--|
| Block Demand     Sliding Window Demand     Demand Interval in Minutes:                        | De | emand Interval Setup:                  |
| Demand Interval in Minutes:   |    | Block Demand     Sliding Window Demand |
| Number of Sub-intervals:  | [  | Demand Interval in Minutes:            |
|   |    | Number of Sub-intervals:               |

#### Table 3: Intervals tab configuration parameters

| Parameter   | Description   |  |  |
|---|---|--|--|
| Recording Interval in Minutes                                 | The interval at which meter data is collected.            |  |  |
| Demand Interval Setup   |   |  |  |
| Block Demand Select Block Demand calculation for demand data. |   |  |  |
| Sliding Window Demand   | Select Sliding Window Demand calculation for demand data. |  |  |

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| Parameter                  | Description  |  |
|----------------------------|--|--|
| Demand Interval in Minutes | The size of the block demand window in minutes (select from the pull-down menu).                                 |  |
| Number of Sub-intervals    | The number of recording sub-intervals that make up the sliding demand interval (select from the pull-down menu). |  |

**Example**: Selecting a Recording Interval of 5 minutes with Sliding Window Demand enabled and 3 Sub-intervals, creates a demand calculation every 5 minutes based on the previous 15 minutes. This is the common demand measurement used by North American utilities when billing for Demand.

NOTE: To activate the Demand Interval Setup settings, Peak Demand must be enabled ( $\checkmark$ ) in the **Types** tab (see Figure 8).

Figure 8: Types tab in the Report section

| Intervals Types Reporting Schedule Calculations & Format BACnet Comms |                |  |  |  |  |
|---|----------------|--|--|--|--|
| Vatt Hours Delivered Interval/Register                                |                |  |  |  |  |
| ✓ Watt Hours Received Interval/Register ✓ Pulses                      |                |  |  |  |  |
| VAR Hours Delivered Interval/Register                                 |                |  |  |  |  |
| VAR Hours Received Interval/Register                                  |                |  |  |  |  |
| VA Hours Interval/Register  |                |  |  |  |  |
| ✓ Present Demand  |                |  |  |  |  |
| 🔲 Peak Demand   |                |  |  |  |  |
| Peak Current  |                |  |  |  |  |
|   | ) I Car Culton |  |  |  |  |

| Parameter                              | Description   |
|--|---|
| Watt Hours Delivered Interval/Register | These types of records can be enabled by selecting $(\checkmark)$ the check box |
| Watt Hours Received Interval/Register  |   |
| VAR Hours Delivered Interval/Register  |   |
| VAR Hours Received Interval/Register   |   |
| VA Hours Interval/Register             |   |
| Present Demand                         |   |
| Peak Demand                            |   |
| Peak Current                           |   |
| Voltage                                |   |
| Pulses                                 |   |

Table 4: Types tab configuration parameters

NOTE: If parameters are grayed out, they are not available on the variant or firmware revision of the meter being configured.

| Report  |
|---|
|   |
| Intervals Types Reporting Schedule Calculations & Format BACnet Comms |
|   |
|   |
|   |
| 🖲 Daily C 📑 Minutes   |
|   |
|   |
| Start Time: 01-00 AM  |
|   |
| End Time: 06:00 AM  |
|   |
|   |
|   |
|   |
|   |
|   |
|   |

Figure 9: Reporting Schedule tab in the Report section

| tervals   Types | Heporting Schedule   Calculations | & Format   BACnet   Comm |
|-----------------|-----------------------------------|--------------------------|
| C Daily         | • 120 🕂 Minutes                   |                          |
|                 |                                   |                          |
|                 |                                   |                          |
|                 |                                   |                          |
|                 |                                   |                          |

.....

## Table 5: Reporting Schedule tab configuration parameters

| Parameter       |            | Description  |  |
|-----------------|------------|--|--|
| Daily (default) |            | Enables daily real time reporting.<br>The unit sends the data file at a randomly selected time within the<br>report window specified by the start and end time . |  |
|                 | Start Time | When daily reporting is enabled, select the reporting period start time.   |  |
|                 | End Time   | When daily reporting is enabled, select the reporting period end time.   |  |
| Minutes         |            | Enables real time reporting every x number of minutes by selecting the radial button and entering the interval in minutes.                                       |  |

NOTE: When selecting a Daily report schedule, the Start Time must occur before the End Time within the midnight to midnight 24-hour time period.

| Intervals   Types   Re | eporting Schedule | Calculations & Fo          | ormat BACnet Comms |
|------------------------|-------------------|----------------------------|--------------------|
|                        | Power Factor      | IEC                        |                    |
|                        | C Arithmetic      | <ul> <li>Vector</li> </ul> |                    |

Figure 10: Calculations & Format tab in the Report section

## Table 6: Calculations & Format tab configuration parameters

| Parameter             |                  | Description   |  |
|-----------------------|------------------|---|--|
| Power Factor          |                  |   |  |
| Sign Format           | IEEE             | In the display, the sign (+ or -) indicates leading (+) or<br>lagging (-) power. The direction of active power is not<br>indicated.   |  |
|                       | IEC (default)    | In the display, the sign (+ or -) indicates the direction<br>of active power. Lead or lag indicates capacitive or<br>inductive power. |  |
| Method of Calculation | Arithmetic       | Selects the arithmetic method for calculating Power Factor.   |  |
|                       | Vector (default) | Selects the vector method for calculating Power Factor  |  |

Figure 11: BACnet tab in the Report section

| Report          |                     |                   |                   |
|-----------------|---------------------|-------------------|-------------------|
| Intervals Types | Reporting Schedule  | Calculations & Fo | rmat BACnet Comms |
|                 |                     |                   |                   |
| Device ID:      | 4194010             |                   |                   |
| Network port:   | 47808               | Sofware Version:  | 1.44              |
| BBMD timeout:   | 60000               | UTC Offset:       | 0                 |
| BBMD address:   |                     | Location:         | Unknown           |
| Description:    | Power Meter         | Object name:      | PowerHawk Meter   |
| Vendor ID:      | 10                  |                   |                   |
| Vendor n        | ame: Schneider Elec | stric             |                   |

### Table 7: BACnet tab configuration parameters

| Parameter        | Description  |
|------------------|--|
| Device ID        | Set the BACnet device ID by entering a a numeric ID between 0 and 4194303.               |
| Network Port     | The BACnet specific port number for this device (default is 47808).                      |
| BBMD Timeout     | Enter the amount of time (seconds) required for connection to a BACnet network.          |
| BBMD Address     | Enter the address of the BBMD device that controls all devices in the BACnet network.    |
| Description      | A user selectable description of the device (default is Power Meter)                     |
| Vendor ID        | BACnet Vendor Identification number (default is 10)                                      |
| Vendor Name      | Schneider Electric (default)   |
| Software Version | The software version of the PowerLogic product (fixed).                                  |
| UTC Offset       | Fixed at 0   |
| Location         | A user selectable description of the physical location of the unit (default is Unknown). |
| Object Name      | PowerHawk Meter (default)  |

| Report  |
|---|
|   |
| Intervals   Types   Reporting Schedule   Calculations & Format   BACnet   Lomms |
| Parameters  |
| Comms option: RTU Adapter 💌   |
| Modem   |
| None  |
| RTU Adapter   |
|   |
|   |
| Utility Password  |
|   |
| Change  |
|   |
|   |
|   |
|   |
|   |
|   |

Figure 12: Comms tab in the Report section

| Report  |
|---|
| Intervals Types Reporting Schedule Calculations & Format BACnet Comms |
| Parameters Comms option: RTU Adapter                                  |
| RTU comms config: 19200,8,1,e   |
| Modbus base address: 1  |
| Utility Password Current Password: KANNER Change                      |
|   |
|   |

| Intervals | Types   Reporting Schedule   Calculations & Format   BACnet Comm |
|-----------|--|
|           | Parameters Comms option: None                                    |
| L.        | lity Password  |
|           |  |
|           | Enter new password:  |

| Parameter        |                  |                     | Description   |  |  |
|------------------|------------------|---------------------|---|--|--|
| Parameters       |                  |                     |   |  |  |
| Comms Option     | Modem            |                     | Selecting Modem configures the communications<br>module as a dial-up modem for remote reporting<br>via a phone line.  |  |  |
|                  | None             |                     | Selecting None disables the communications module interface   |  |  |
|                  | RTU Adapter      |                     | Selecting RTU Adapter configures the<br>communications module as a Modbus<br>RS422/RS485 serial interface.  |  |  |
|                  |                  | RTU comms config    | Enter the RTU serial port parameters as a string with the following selections: baud rate (19200 or 9600), number of bits (8), number of start bits (1), number of stop bits (1), parity type (e – even, n – none |  |  |
|                  |                  |                     | Example: 19200,8,1,e (default)  |  |  |
|                  |                  | Modbus base address | Enter the Modbus RTU address for this device (1 to 255)   |  |  |
| Utility Password |                  |                     |   |  |  |
|                  | Current Password |                     | The default meter Utility Password is listed here<br>whenever the Configuration Tool is started or<br>when a configuration is uploaded from a meter.  |  |  |
|                  |                  |                     | If the Utility Password for the meter is not the<br>default password, enter the Current Password<br>here to change metering specific parameters or to<br>change the password again.                               |  |  |
|                  | Enter ne         | ew password         | To change the password, enter the new password.   |  |  |
|                  | Enter ne         | ew password again   | To confirm, re-enter the new password.  |  |  |

| Fable 8: | Comms | tab | configuration | parameters |
|----------|-------|-----|---------------|------------|
|----------|-------|-----|---------------|------------|

NOTE: The Modbus and RTU Adapter Comms Option parameters are valid only when a Modem module or an RTU adapter module is present. The RTU Adapter parameters apply only to Modbus RTU communications. There are no configuration options when Modbus over TCP/IP is used.

NOTE: : The meter Utility Password is used to control access to changing the metering specific parameters in the PowerLogic meter. The following parameters and functions cannot be changed or activated unless the correct Utility Password is entered before sending the new config to the meter:

PT Ratio CT Current and Phase Reset Dial Readings Model Number Change Password All other parameters and functions can be changed or accessed without entering the correct Utility Password for the meter being configured.

## **Manufacturing Tab**

The **Manufacturing** tab allows the user to define the metering configuration for the PowerLogic meters. The meters support the configurations listed in Table 9.

| EM4033xx       | EM4080xx       | EM4805xx       | EM4833xx       | EM4880xx       |
|----------------|----------------|----------------|----------------|----------------|
| EM4033xx-1P-12 | EM4080xx-1P-12 | EM4805xx-1P-12 | EM4833xx-1P-12 | EM4880xx-1P-12 |
| EM4033xx-1P-24 | EM4080xx-1P-24 | EM4805xx-1P-24 | EM4833xx-1P-24 | EM4880xx-1P-24 |
| EM4033xx-2P-12 | EM4080xx-2P-12 | EM4805xx-2P-12 | EM4833xx-2P-12 | EM4880xx-2P-12 |
| EM4033xx-2P-24 | EM4080xx-2P-24 | EM4805xx-2P-24 | EM4833xx-2P-24 | EM4880xx-2P-24 |
| EM4033xx-3P-08 | EM4080xx-3P-08 | EM4805xx-3P-08 | EM4833xx-3P-08 | EM4880xx-3P-08 |

Table 9: List of supported PowerLogic metering configurations

To view the manufacturing information for a specific meter, select a model number from the **Model #** pull-down list shown in Figure 13. The part number, revision number and serial number for the selected model will be shown.

#### Figure 13: Manufacturing tab

| 9    | EM4800 Configuration Tool   |  |  |  |  |  |
|------|---|--|--|--|--|--|
| Unit | Help  |  |  |  |  |  |
|      | Unit Field Configuration Manufacturing Meter Points (Circuits) Pulse Probes |  |  |  |  |  |
|      | Marketing Information   |  |  |  |  |  |
|      | Part #:   |  |  |  |  |  |
|      | Model #: EM488010-3P-08   |  |  |  |  |  |
|      | EM488010-1P-12<br>Revision #: EM488010-1P-24<br>EM488010-2P-12              |  |  |  |  |  |
|      | Serial # EM488010-2P-24<br>EM488010-3P-08                                   |  |  |  |  |  |
|      |   |  |  |  |  |  |
|      |   |  |  |  |  |  |
|      |   |  |  |  |  |  |
|      |   |  |  |  |  |  |
|      |   |  |  |  |  |  |
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|      |   |  |  |  |  |  |
|      |   |  |  |  |  |  |
|      |   |  |  |  |  |  |
|      |   |  |  |  |  |  |
|      |   |  |  |  |  |  |
|      |   |  |  |  |  |  |
|      |   |  |  |  |  |  |
|      |   |  |  |  |  |  |
| -    |   |  |  |  |  |  |
|      |   |  |  |  |  |  |

## Meter Points (Circuits) Tab

The **Meter Points (Circuits)** tab contains the configuration information for each of the metering points. It shows the number of elements used, the phase, the current ratings, and the user-defined identification string for each meter point. Default information is entered when the metering configuration is selected in the **Manufacturing** Tab (see "Manufacturing Tab" on page 19).

### **Meter Point Configuration**

The current rating and phase assignment for each meter point can be configured individually, by meter, or all at once. The configuration in all three cases does not take effect until the new settings have been sent to the meter (see "Completing the Meter Configuration" on page 26).

To change the current rating and phase assignment for an individual meter point:

- 1. Select one probe at a time from the **Meter Points (Circuits) List.** The selected probe number will appear in the middle pane beside **Probe**, and its assigned **Current** and **Phase** are shown beneath it. See Figure 14.
- 2. To change the **Current**, enter the required number. To change the **Phase**, select the required phase type from the pull-down list.

| <ul> <li>MP1 - Meter 1</li> <li>Probe 1-1 - A - 200 A</li> <li>Probe 1-3 - A - 200 A</li> <li>Probe 1-3 - A - 200 A</li> <li>MP2 - Meter 2</li> <li>MP3 - Meter 3</li> <li>MP4 - Meter 4</li> <li>MP5 - Meter 5</li> <li>MP6 - Meter 6</li> <li>MP7 - Meter 7</li> <li>MP8 - Meter 8</li> </ul> | Name: Meter 1<br>Badge Number: NONE<br>Probe 1-1<br>Current: 200<br>Phase: A | Prefix:<br>Badge Number:<br>Badge Number Width: 0<br>Incremental badge numbers<br>Single badge number<br>Example:<br>To<br>Assign Badge Numbers<br>Alter Current for Probes<br>Current: 200<br>Change Probes in Selected Meter<br>Change all Probes in all Meters |
|---|--|---|
|---|--|---|

Figure 14: Meter Points configuration screen

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To change the current rating for all probes assigned to a meter point:

- 1. Select a meter from the **Meter Points (Circuits) List.** The selected meter will appear in the **Name** field of the middle pane. See Figure 14.
- In the Alter Current for Probes pane, enter the desired value referenced to the CT primary rating in the Current field, and click on Change Probes in Selected Meter.

To change the current rating for all probes assigned to all meter points:

 In the Alter Current for Probes pane, enter the desired value referenced to the CT primary rating in the Current field, and click on Change all Probes in all Meters. See Figure 14.

#### **Badge Numbering**

Each meter point can be configured with a name defined by the user. The meter point name, known as the badge number, can be up to 13 alphanumeric characters in length. The **Badge Numbering** pane allows the user to set two types of badge numbers:

- sequential, which assigns a badge number to each meter point after the prefix (for example CORP-00000001 to CORP-00000012)
- grouped by meter, which uses a base prefix to designate the meter, then assigns a sequential badge number suffix to each meter point assigned to that meter (for example CORP-00001-01 to CORP-00001-12)

The configuration tool provides examples before the badge number is assigned to the meter. In the **Badge Numbering** pane shown in Figure 15, the following fields and buttons are provided for assigning badge numbers:

- **Prefix** field an alphanumeric field that prefixes the number field.
- **Badge Number** field a numeric field that becomes part of the prefix for meter points assigned to that meter, or the first number in the sequence to be assigned to individual meter points.
- Badge Number Width field a numeric field that defines the number of digits in the badge number field. Zeroes (0) are automatically entered at the beginning of the badge number field until the total number of digits in the badge number field equals the number of digits defined in the badge number width field.
- **Incremental badge numbers** button selecting this button assigns a sequential badge number for each meter point
- **Single badge number** button selecting this button assigns one badge number prefix followed by a numeric suffix for each meter point assigned to that meter.
- Assign Badge Numbers button selecting this button implements the badge numbering defined by the user in the previous fields.

| Badge Num    | bering                          |
|--------------|---------------------------------|
|              | Prefix: SCH-                    |
| Ba           | dge Number: 10                  |
| Badge Nu     | mber Width: 0                   |
|              | Incremental badge numbers       |
|              | Single badge number             |
| E>           | kample: SCH-10                  |
|              | То                              |
|              | SCH-17                          |
|              | Assign Badge Numbers            |
| Alter Curren | t for Probes                    |
| Cur          | rent: 200                       |
|              |                                 |
|              | Change Probes in Selected Meter |
|              | Change all Probes in all Meters |

Figure 15: Badge Numbering pane

### **Reset Buttons**

- **Reset Dial Readings** button selecting this button resets all registers for all energy types and pulse counts to zero. This function takes effect immediately and does not require a send action.
- Send PC Time button selecting this button configures the meter with the current PC UTC and local time. This function takes effect immediately and does not require a send action. This function can be used when access to the network time service is not available.

- Adjust Dial Reading button selecting this button allows the operator to set all of the following energy type registers to the same fixed initial value:
  - Delivered Watt Hours
  - Received Watt Hours
  - Delivered VAR Hours
  - Received VAR Hours
  - VA Hours

This function takes effect immediately and does not require a send action.

 Reset Demand Reading button - selecting this button resets the Peak Demand register for all meter points to zero. This function takes effect immediately and does not require a send action.

### **Pulse Probes Tab**

The **Pulse Probes** tab contains the configuration information for each pulse input. It shows the measurement type in units for each input, and the scale factor applied to the collected pulse counts. Figure 16 shows the Pulse Probes tab of the main configuration tool window.

To configure a pulse probe:

- Enable (✓) Pulses in the Types tab of the Report section in the Unit Field Configuration tab. See Figure 8 on page 13.
   NOTE: The Pulse Probe settings are not active unless Pulses are enabled in the Types tab.
- 2. Select a pulse probe from the Probe List.
- 3. Select a measurement type from the **Type** pull-down list.
- 4. Enter a value in the Scale Factor field.

NOTE: This scale factor only changes the pulse values in the TR3 report. The pulse count in the device web page is not scaled.



| Unit Help Unit Field Configuration   Manufacturing   Meter Points (Circuits)   Pulse Probes   Probe List Probe List Probe 1 - Electricity (KW) Pulse Probe 2 - Unknown () Pulse Probe 2 |     |
|--|-----|
| Unit Field Configuration Manufacturing Meter Points (Circuits) Pulse Probes  |     |
| Pulse Info<br>Type: Electricity - Power (KW) T<br>Scale Factor. 1  |     |
| File leaded successfully   | 016 |

## **Completing the Meter Configuration**

Once you have defined all of the configurable parameters, the PowerLogic meter is ready to be programmed.

To complete the meter configuration:

1. Click **Unit** in the menu bar, then select **Save** from the drop-down menu. See Figure 17.

| 🕑 EM4800 Co            | nfiguration            | Tool                        |                               |                            | 🛛                  |
|------------------------|------------------------|-----------------------------|-------------------------------|----------------------------|--------------------|
| Unit Help              |                        |                             |                               |                            |                    |
| New 🕨                  |                        |                             |                               |                            |                    |
| Open                   | nfiguration M          | anufacturing Meter Poin     | ts (Circuits)   Pulse Probes  |                            | 1                  |
| Save                   |                        |                             |                               |                            |                    |
| Save As                | ent IP Address:        | 192.168.111.30              |                               | Main Meter - 120V - WYE    |                    |
| List                   | MAC Address:           | 0021B6000771                |                               | PT Ratio: 1.00             |                    |
| Send                   | Revision:              |                             |                               |                            |                    |
| Template 🕨             | Configuration          |                             |                               | Modem                      |                    |
| Exit                   | IP Address             | 169 254 0 10                |                               | Alloweds Dirace the        |                    |
|                        | Netmask                | 255 255 255 0               |                               | Alternate Friorie #.       |                    |
|                        | Gateway                | 0.0.0.0                     |                               | AT String: ATX3            |                    |
|                        |                        | 10.0.0.0                    |                               | Wait for Dial Lone: )      |                    |
| DNG                    | Casandanu              | 0.0.0                       |                               | Host Server                |                    |
| DNS Secondary: 0.0.0.0 |                        | IP Address: 206.191.53.50   |                               |                            |                    |
|                        | ✓ DHCP Enabled         |                             | Upload Directory: download    |                            |                    |
|                        |                        |                             |                               | Download Directory: upload |                    |
| Report -               |                        |                             |                               | ETPLogin                   |                    |
| Intervals              | Types   Repo           | rting Schedule   Calculatio | ons & Format   BACnet   Comms | User Name: Schneider       |                    |
| Page                   | undiana lastanu al inc | Minuteer It                 |                               | Password: E4000t-1         |                    |
| nect                   | nung meran             |                             |                               |                            |                    |
| - Dea                  | and Interval Co        | alue:                       |                               | PPP Login                  |                    |
| Den                    | iariu interval Se      | stup.                       |                               | Diser Name.                |                    |
|                        | Bloc                   | k Demand 🛛 🔿 Sliding \      | Vindow Demand                 | Password:                  |                    |
| De                     | emand Interval i       | n Minutes: 1 🔻              |                               |                            |                    |
|                        |                        | ,                           |                               | NTP Host (Time Server)     |                    |
|                        |                        |                             |                               | IP Address: 206.191.53.50  |                    |
|                        |                        |                             |                               |                            |                    |
|                        |                        |                             |                               |                            |                    |
|                        |                        |                             |                               |                            |                    |
| File loaded succes     | sfullul                |                             |                               |                            | Unit Type: E488016 |
|                        | or only:               |                             |                               |                            | Cim 1900. E400010  |

Figure 17: Saving the configuration settings

 Click Unit in the menu bar, then select Send from the drop-down menu to transmit the configuration settings from your PC to the selected PowerLogic meter. The confirmation message File loaded successfully! should appear in the bottom left corner of the window. See Figure 18.

| Figure 18: | Sending the | configured | settings to | the meter |
|------------|-------------|------------|-------------|-----------|
|------------|-------------|------------|-------------|-----------|

| S EM4800 Configuration Tool   |   |            |
|---|---|------------|
| Unit Help   |   |            |
| New  Open  ofiguration Manufacturing Meter Points (Circuits) Pulse Probes   |   |            |
| Save<br>Save As nt IP Address: 192.168.111.30<br>List<br>Connect<br>Send<br>Template<br>Exit<br>IP Address: 102.186.000771<br>Configuration<br>IP Address: 163.254.0.10<br>Netmask: 255.255.0<br>Gateway: 0.0.0<br>DNS Primary: 0.0.0<br>DNS Primary: 0.0.0<br>DNS Secondary: 0.0.0<br>FV DHCP Enabled<br>Report<br>Intervals Types Reporting Schedule Calculations & Format BACnet Comms | Main Meter - 120V - WYE<br>PT Ratio: 1.00<br>Modem<br>Phone #:<br>Alternate Phone #:<br>AT String: ATX3<br>Wait for Dial Tone:<br>Host Server<br>IP Address: 206.191.53.50<br>Upload Directory: download<br>Download Directory: upload<br>FTP Login<br>User Name: Schneider |            |
| Recording Interval in Minutes: 1  Demand Interval Setup:  Block Demand C Sliding Window Demand Demand Interval in Minutes: 1  | Password: [E4000t-1<br>PPP Login<br>User Name:<br>Password:<br>NTP Host (Time Server)<br>IP Address: 206.191.53.50  |            |
| File loaded successfully!   | Unit Type   | e: E488016 |

## PowerLogic<sup>™</sup> Series EM4000/EM4800

## **User notes**

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PowerLogic<sup>TM</sup> Series EM4000/EM4800 Multi-Circuit Meters

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http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com