

PM5500 Series SE Driver for Power Monitoring Expert 8.1

Release Notes

This document contains information about the Power Monitoring Expert 8.1 SE (Standard Edition) driver for the PM5500 Series devices.

In This Document

Version History	3
Safety Information	4
Important information.....	4
Please note.....	4
Safety Precautions	5
PM5500 Series SE Driver	6
Power Monitoring Expert Requirements	6
Driver Version.....	6
Supported Models	6
Features	6
Installation.....	8
Device Driver Installer	8
Uninstalling.....	8
Implementation Details	9
Device Configuration and Upgrade	9
Digital Output Operation.....	9
Alarm Configuration.....	10
Alarm Log	10
Maintenance Log.....	10
On-Board Logging	11
PC-Based Logging	12
Setting Device Demand Password.....	16
Known Issues	18

Vista Factory Diagram Screenshots19

Additional Information

- PM5500 device documentation
- Power Monitoring Expert 8.1 documentation

Version History

The following table lists the version history of the PM5500 Series device driver:

Version Number	Description of Changes
8.1.16278.01 8.1.16252.01	Issues Resolved • Device driver downloads logs from the device slowly after a site server restart • Device driver stops downloading logs if exception response is received from the device while downloading logs. For more details, refer to the <i>Known Issues</i> section.
Native driver	First Release.

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

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

WARNING

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

CAUTION

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

NOTICE

NOTICE is used to address practices not related to physical injury.

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.

Safety Precautions

During installation or use of this software, pay attention to all safety messages that occur in the software and that are included in the documentation. The following safety messages apply to this software in its entirety.

▲ WARNING

UNINTENDED EQUIPMENT OPERATION

- Do not use the software for critical control or protection applications where human or equipment safety relies on the operation of the control action.
- Do not use the software to control time-critical functions because communication delays can occur between the time a control is initiated and when that action is applied.
- Do not use the software to control remote equipment without securing it with an authorized access level, and without including a status object to provide feedback about the status of the control operation.

Failure to follow these instructions can result in death or serious injury.

▲ WARNING

INACCURATE DATA RESULTS

- Do not incorrectly configure the software, as this can lead to inaccurate reports and/or data results.
- Do not base your maintenance or service actions solely on messages and information displayed by the software.
- Do not rely solely on software messages and reports to determine if the system is functioning correctly or meeting all applicable standards and requirements.
- Consider the implications of unanticipated transmission delays or failures of communications links.

Failure to follow these instructions can result in death, serious injury, equipment damage, or permanent loss of data.

PM5500 Series SE Driver

Power Monitoring Expert Requirements

The device can be connected to Power Monitoring Expert 8.1 using one of the following methods:

- As a translating gateway, such as an EGX300 or some other method of connection that allows the device to use Modbus™ TCP.
- As a Serial connection using a suitable RS-485 to RS-232 converter.
- As an Ethernet Device (for potential issues, refer to the *Known Issues* section).

Driver Version

This release note applies to the driver version 8.1.16278.01.

Supported Models

The driver supports the following device variants belonging to the PM5500 Series:

- PM5560
- PM5561
- PM5563

The supported firmware revision of the PM5500 Series SE driver is 2.3.0.

NOTE: Upgrade to firmware version 2.3.0 or greater if you are using V1.x.xxxx. For more details, refer to the *Known Issues* section.

Some features may not work for other firmware versions.

Features

This device driver supports the following features:

- Support for all real-time registers
- Factory diagrams for Wye, Delta and Single phase connections
- Automatic synchronization of device clock with UTC at hourly intervals
- Input Metering
- Reset Operations
- Support for on-board data logs
- Support for on-board alarm logs
- Support for on-board maintenance logs

- Support for Digital Output Operations
- Support for real-time data transfer using OPC
- The following factory-provided default reports in the Web-based Reports application:
 - Energy Cost
 - Event History
 - Energy Period Over Period
 - Energy Usage by Shift
 - Hourly Usage
 - Load profile
 - Multi Device Usage
 - Single Device Usage
 - Tabular
 - Trend
- The following factory-provided default reports in the Excel-based Reporter application:
 - Energy and Demand
 - Load Profile

Installation

Device Driver Installer

WARNING

LOSS OF CONTROL

Do not ignore the alerts during driver installation. If you choose to ignore such alerts, the driver will be installed but may operate incorrectly.

Failure to follow this instruction can result in death or serious injury.

The associated device driver installer is used to add this driver and all the required supporting files to the target Power Monitoring Expert system. The supporting files consist of:

- Device map and tree files
- Vista diagrams
- wt4000.dll
- evt file

NOTE: The device driver installation process requires restarting the Site Server component of Power Monitoring Expert. This results in a brief disruption of the communication between the Power Monitoring Expert server and the devices connected to it.

Uninstalling

Uninstalling by Add/Remove programs removes all the files that were added by the Device Driver Installer. This method does not remove files that have been modified.

For more information about uninstalling the driver, refer to the *Known Issues* section.

Implementation Details

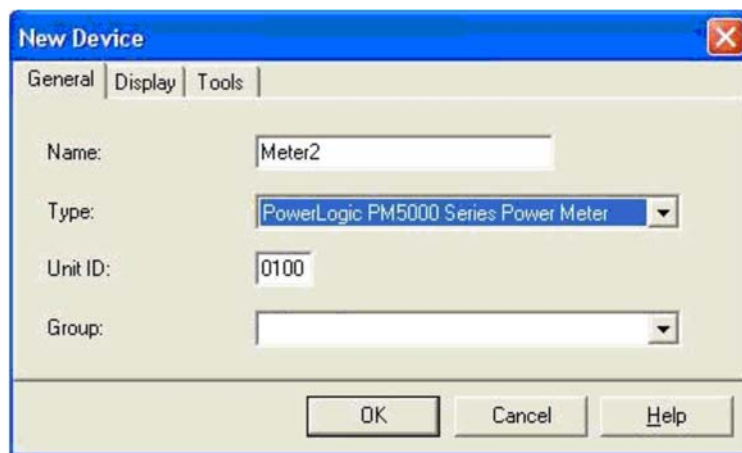
Device Configuration and Upgrade

NOTE: Power Monitoring Expert cannot be used to configure this device or to upgrade the device firmware.

The device firmware can be upgraded using the DLF 3000 tool.

The device configuration can be performed using ION Setup V3.0 build 13263 and later. In ION Setup, open the New Device screen and configure the device as follows:

On the **General** tab, in the **Type** list, click **PowerLogic PM5000 Series Power Meter**.



Digital Output Operation

⚠ WARNING

UNINTENDED EQUIPMENT OPERATION

- Do not use control objects for time-critical functions because delays can occur between the time a control action is initiated and when that action is applied.
- Do not create a custom control object in a Vista diagram for remote equipment operation without configuring it with the appropriate access level, and without configuring a status object to indicate the status of the control operation.

Failure to follow these instructions can result in death or serious injury.

The PM5500 Series device provides 2 Digital outputs which can be operated remotely using the Power Monitoring Expert. To operate the

digital outputs, create a custom Vista diagram with the necessary control objects.

NOTE:

- Be aware that the time to complete an I/O command operation depends on many factors, most notably network traffic. Under normal network traffic conditions, it takes approximately 10 seconds to complete the command sequence. In case of heavy network traffic, the command sequence may take longer to complete.
 - It is important to realize that system control paths contain communications links that may have unanticipated transmission delays or failures.
-

Alarm Configuration

Configuration of alarms is possible from Vista. However, Vista might take longer than expected (at times up to 30 seconds) to refresh after configuring an item. You should wait for Vista to refresh before proceeding to configure the next item.

In the case of Under Alarms, configure dropout set points before pickup set points. Otherwise, the alarm set point values will not get configured. Similarly, if invalid values are entered, the device will not get configured. For more information on valid ranges for set point values, refer to the Device user manual.

NOTE:

- Vista can only be used for alarm configuration of standard, unary and digital alarm type. All other device configuration must be performed using ION Setup.
 - Alarm configuration is also possible using ION Setup.
-

Alarm Log

The PM5500 Series supports on-board alarm logging. The device driver polls the device and checks for new log entries at regular intervals. The default polling interval is 30 seconds.

The polling interval can be modified by changing the value of the register "EL1 Poll Period Seconds" in ext_pm5500.ion in the ...\\system\\translators folder. The lowest possible polling interval is 5 seconds.

Maintenance Log

The PM5500 Series supports on-board maintenance logging. The device driver polls the device and checks for new log entries at regular intervals. The default polling interval is 600 seconds.

The polling interval can be modified by changing the value of the register "EL3 Poll Period Seconds" in ext_pm5500.ion in the ...\\system\\translators folder. The lowest possible polling interval is 5 seconds.

On-Board Logging

The PM5500 Series supports on-board logging for up to 14 user-selectable measurements.

The device driver shall poll the device and check for new log entries at regular intervals. The default polling interval is 30 seconds.

The polling interval can be modified by changing the value of the register "R3 Poll Period Seconds" in ext_pm5500.ion in the ...\\system\\translators folder. The lowest possible polling interval is 5 seconds.

The measurements available for selection are as follows:

Measurements	Preconfigured as factory default
Real Energy Into the Load	✓
Real Energy Out of the Load	-
Reactive Energy Into the Load	✓
Reactive Energy Out of the Load	-
Apparent Energy Into the Load	-
Apparent Energy Out of the Load	-
Digital Input 01 Count	-
Digital Input 02 Count	-
Digital Input 03 Count	-
Digital Input 04 Count	-
WAGES External Input 1 Cumulative Usage	-
WAGES External Input 2 Cumulative Usage	-
WAGES External Input 3 Cumulative Usage	-
WAGES External Input 4 Cumulative Usage	-
Current A	-
Current B	-
Current C	-
Current N	-
Current G	-
Current Avg	-
Voltage A-B	-
Voltage B-C	-
Voltage C-A	-
Voltage L-L Avg	-
Voltage A-N	-
Voltage B-N	-
Voltage C-N	-
Real Power A	-
Real Power B	-

Measurements	Preconfigured as factory default
Real Power C	-
Real Power Total	-
Reactive Power A	-
Reactive Power B	-
Reactive Power C	-
Reactive Power Total	-
Apparent Power A	-
Apparent Power B	-
Apparent Power C	-
Apparent Power Total	-

For more information on on-board logging feature, refer the device documentation.

PC-Based Logging

The PM5500 Series device driver allows the user to log data using the PC-based logging feature.

The following measurements are logged by default using the PC-based logging feature:

Measurements	Logging Interval (in secs)
Current Phase A	900
Current Phase B	900
Current Phase C	900
Current Phase Avg	900
Demand Real Power A	900
Demand Real Power B	900
Demand Real Power C	900
Demand Real Power Total	900
Demand Reactive Power Total	900
Demand Apparent Power Total	900
Demand Current A	900
Demand Current B	900
Demand Current C	900
Demand Current Avg	900
Voltage A-B	900
Voltage B-C	900
Voltage C-A	900
Voltage L-L Avg	900
Voltage A-N	900
Voltage B-N	900
Voltage C-N	900

Measurements	Logging Interval (in secs)
Voltage L-N Avg	900
Power Factor Total	900
WAGES External Input 1 Demand Last	900
WAGES External Input 2 Demand Last	900
WAGES External Input 3 Demand Last	900
WAGES External Input 4 Demand Last	900
WAGES External Input 1 Cumulative Usage	900
WAGES External Input 2 Cumulative Usage	900
WAGES External Input 3 Cumulative Usage	900
WAGES External Input 4 Cumulative Usage	900

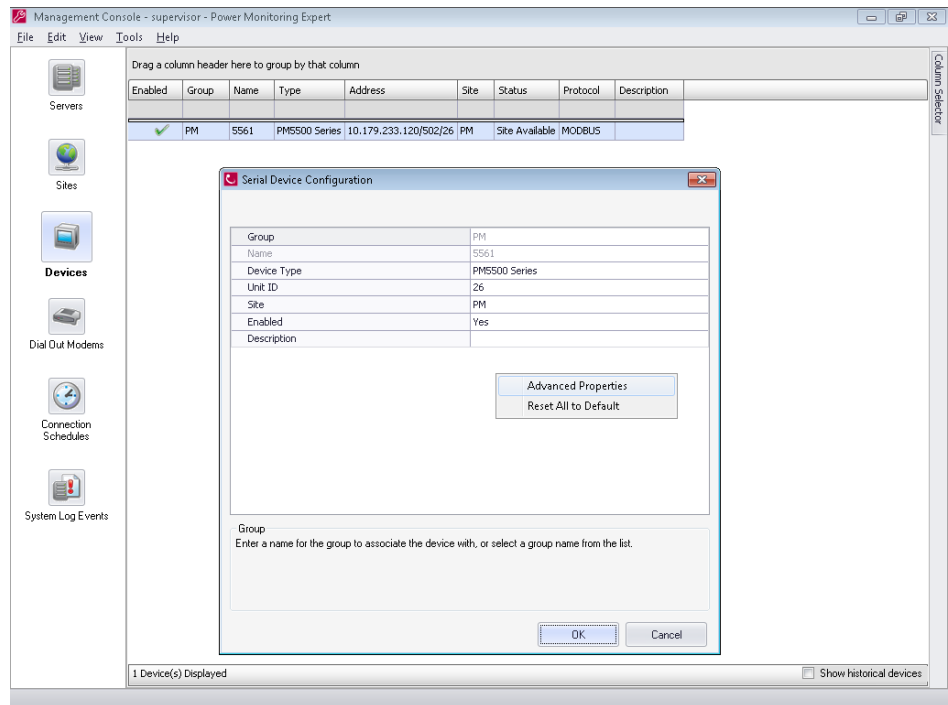
To change the list of measurements being logged, use the Modbus Device Importer, accessed from the Tools > System menu in Management Console.

Time Synchronization Enable/Disable

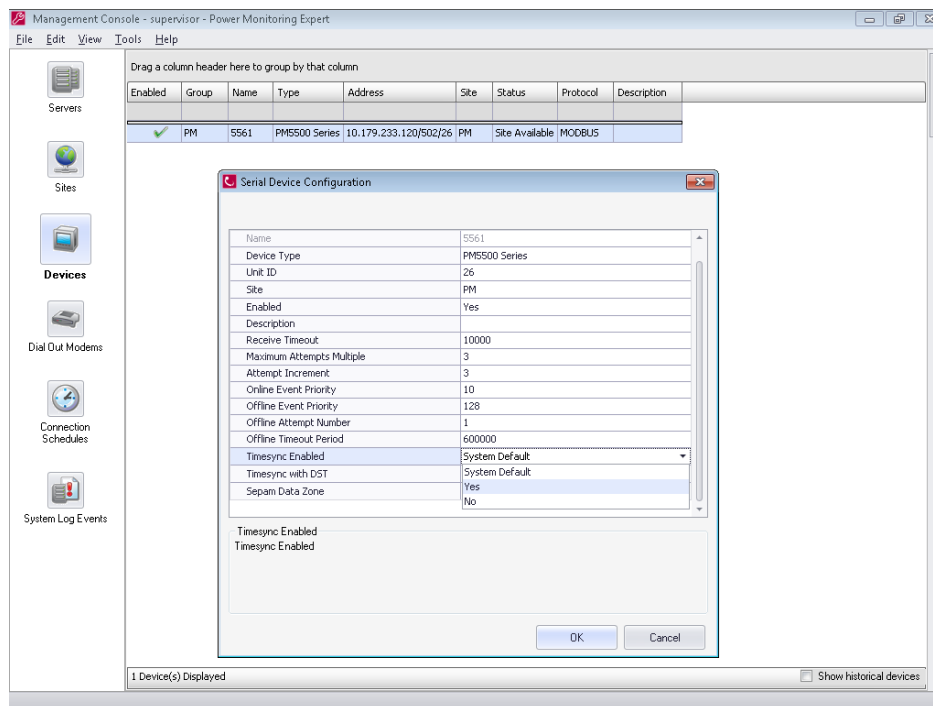
By default, the Power Monitoring Expert server synchronizes the device time with UTC at hourly intervals.

For a particular device instance, disable time synchronization through Management Console as follows:

1. Click the **Devices** icon, right-click the device instance and select the **Configure Device** option.
2. Right-click the grid area and select the **Advanced Properties** menu option.



3. To enable the Timesync, select **Yes** from the **Timesync Enabled** dropdown list. To disable **Timseync**, select **No** from the **Timesync Enabled** dropdown list.



Time synchronization interval can be modified by changing the **TimeSyncInterval** attribute in the pm5500.xml map file, which determines the time synchronization interval in seconds.

To disable the time synchronization for the entire device type, set the **TimeSyncInterval** attribute in pm5500.xml file to **0**.

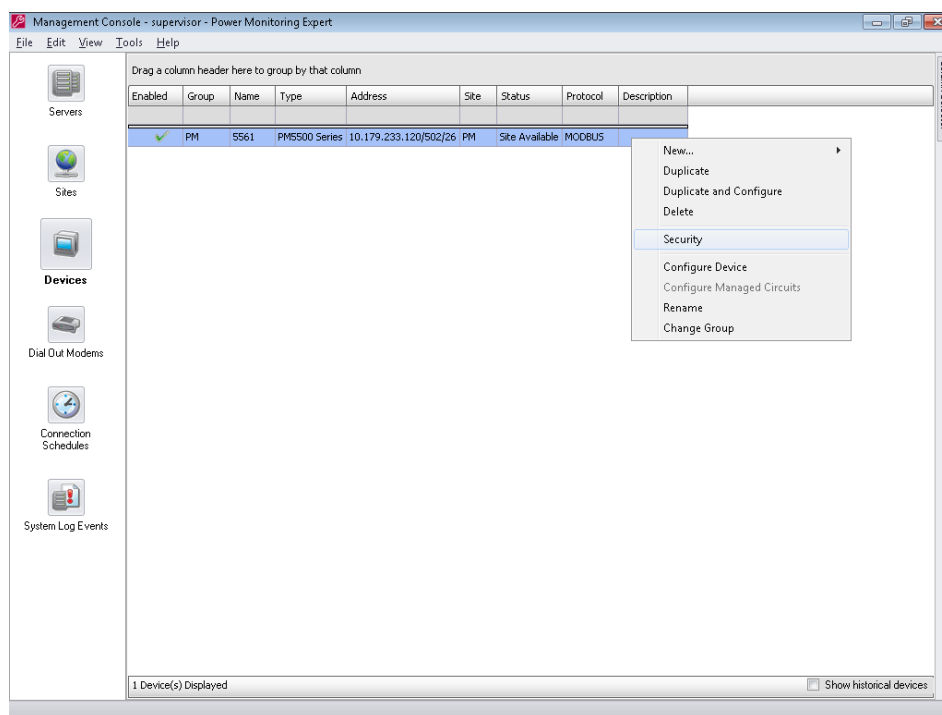
NOTE: The minimum value for the **TimeSyncInterval** attribute is 300 seconds. The **TimeSyncInterval** attribute takes effect only if **Timesync Enabled** is set to **System Default**. The time synchronization occurs at fixed hourly intervals if **Timesync Enabled** is set to **Yes**.

Setting Device Demand Password

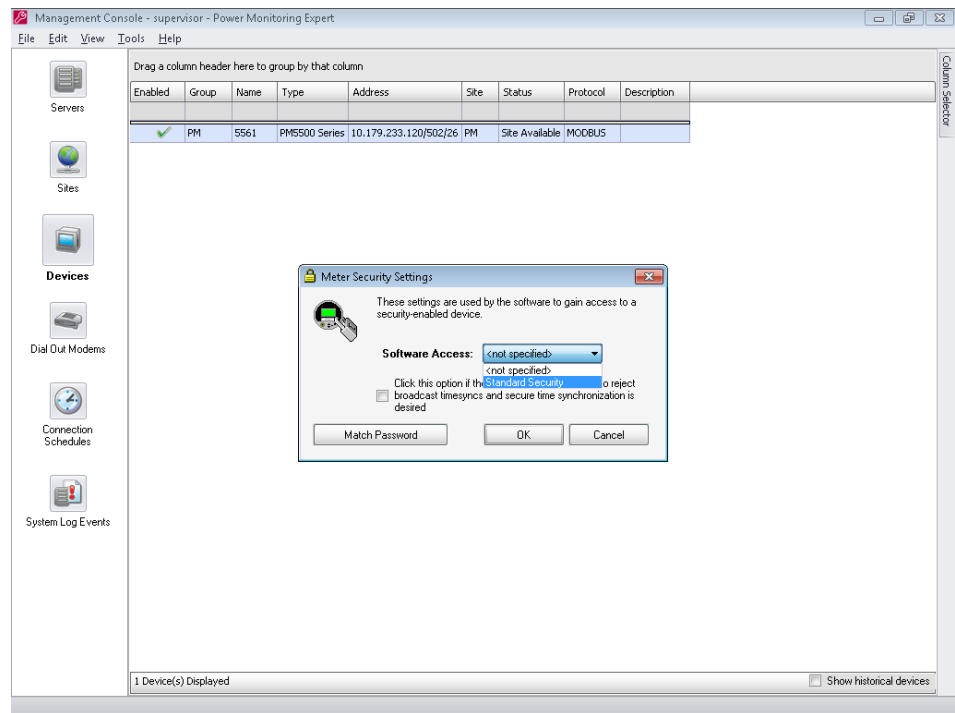
When revenue security is enabled, the Demand Reset functionality of the PM5000 Series devices are protected by a password, that is, Demand password.

For successful reset operation, the demand password in the device should match the password in the Power Monitoring Expert. If the demand password is changed in the device, ensure that the same is updated in the Power Monitoring Expert through Management Console as follows:

1. Go to **Devices** icon, right-click the device instance to open **Security** property.

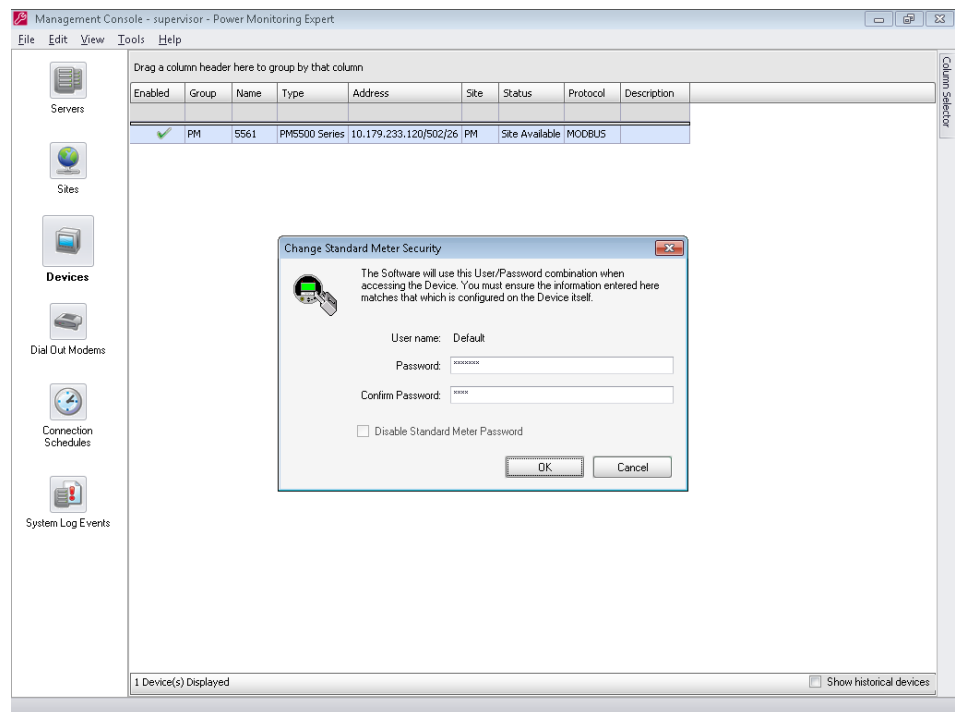


2. Select the **Standard Security** option from the **Software Access** dropdown list.



3. Click **OK** to set the new device password.

NOTE: The new password should be in numerical format, containing four digits.



Known Issues

Following are the known issues as of the publication date of this document. These issues might be resolved in future releases:

- When the driver is uninstalled, the device instances in the Management Console component and in the device type definition contained in the Device Type table in the ION_Network database are not removed.

Workaround: Before uninstalling the driver, delete the existing instances of the device from the Management Console.

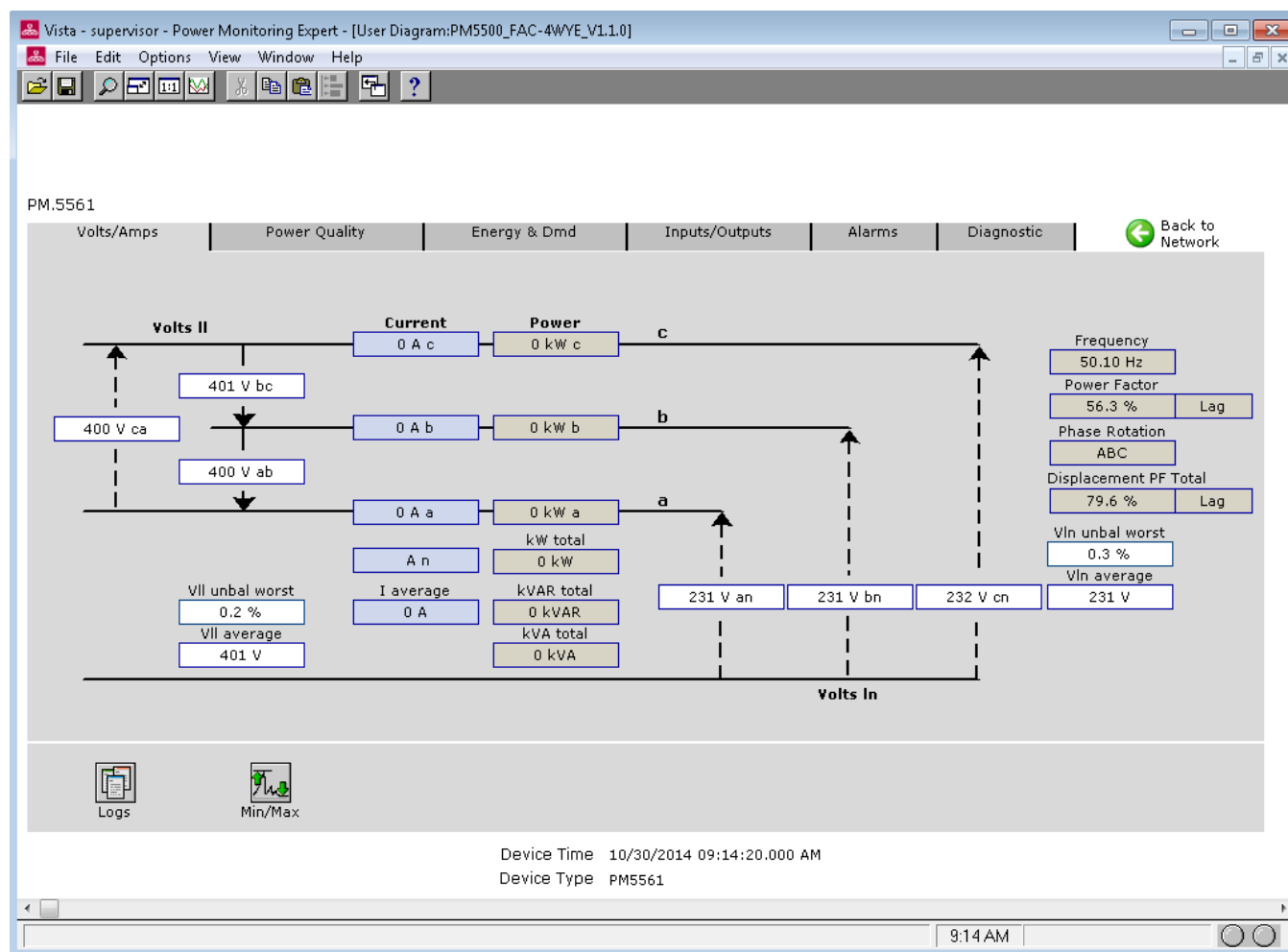
- Time synchronization cannot be disabled on a device instance basis, if the device is connected as an Ethernet Device.

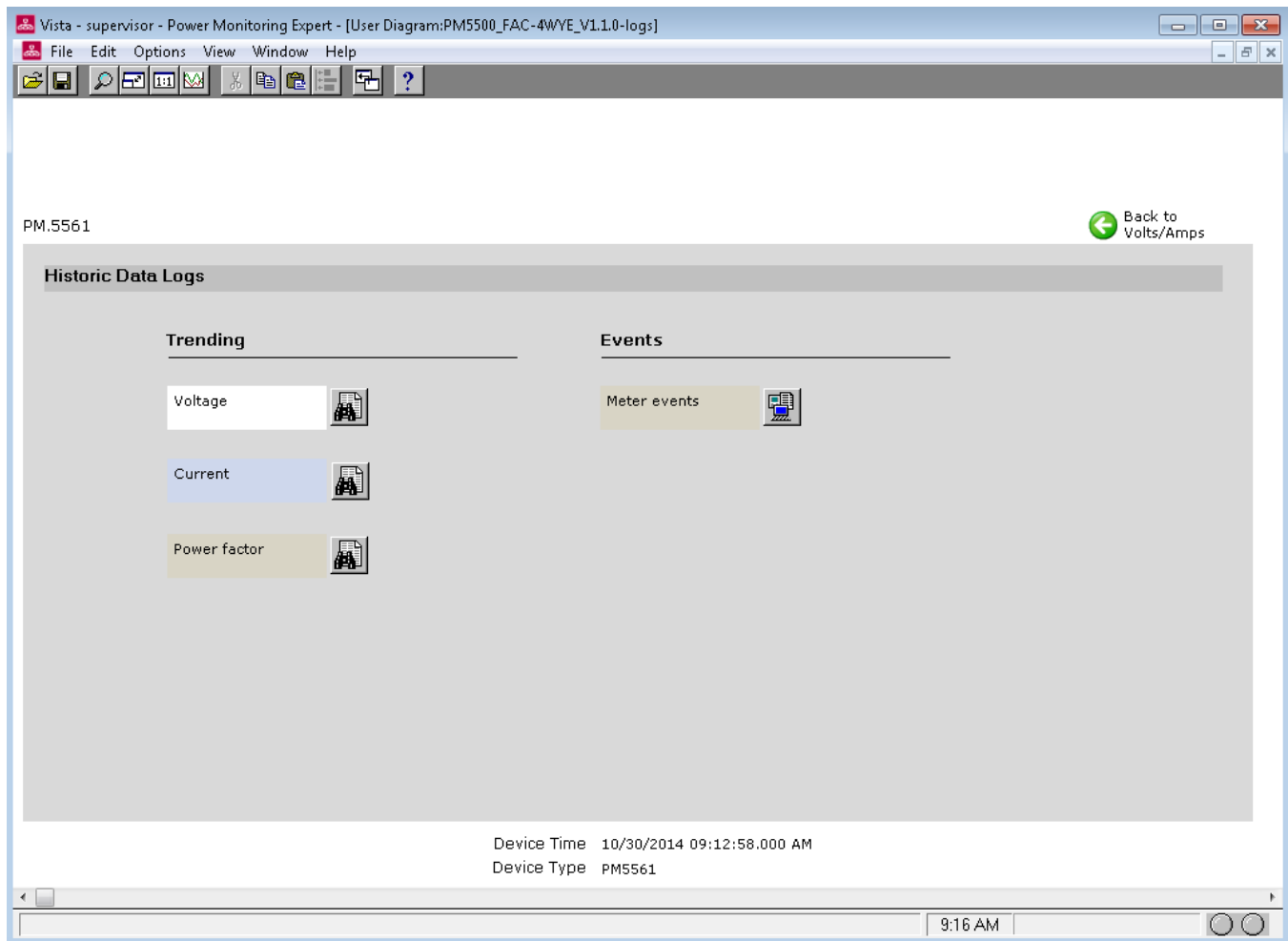
Workaround: Configure the device as a Serial Device on the Ethernet Gateway site.

- The driver skips record(s) when an exception response is received from the device while reading it. This means there may be occasional gaps in the data log read from the device. Frequency of such gaps depends on the device behaviour. An entry is made in the PME system event log (in Management Console) every time PME driver skips a record. (along with the record number being skipped)

Vista Factory Diagram Screenshots

This section contains samples of the Vista factory diagrams for the device.





Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-minmax]

File Edit Options View Window Help

PM.5561

Min/Max Voltage Min/Max Current Min/Max [Back to Volts/Amps](#)

Min		Max	
	Value		Value
kW total	-0.001 kW	kW total	0.267 kW
kVAR total	-0.107 kVAR	kVAR total	0.213 kVAR
kVA total	0.000 kVA	kVA total	0.286 kVA
Frequency	50.10 Hz	Frequency	50.12 Hz
PF Total	-2 %	PF Total	0 %
PF Total Load Type	Lead	PF Total Load Type	Lead
Displacement PF Total	0 %	Displacement PF Total	0 %
Displacement PF Total Load Type	Lead	Displacement PF Total Load Type	Lead
Total Demand Distortion	0.000 %	Total Demand Distortion	139.761 %

Reset Min/Max
(also resets harmonics min/max) 

Device Time 10/30/2014 09:14:20.000 AM
Device Type PM5561

9:18 AM

Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-minmaxv]

File Edit Options View Window Help

PM.5561

Min/Max Voltage Min/Max Current Min/Max  Back to Volts/Amps

Min		Max	
	Value		Value
Vab	396 V	Vab	401 V
Vbc	397 V	Vbc	403 V
Vca	396 V	Vca	402 V
Van	228 V	Van	232 V
Vbn	229 V	Vbn	232 V
Vcn	230 V	Vcn	233 V
Vll Unbal worst	0.0 %	Vll Unbal worst	0.3 %
Vln Unbal worst	0.1 %	Vln Unbal worst	0.5 %
Vll avg	397 V	Vll avg	402 V
Vln avg	229 V	Vln avg	232 V

Reset Min/Max
(also resets harmonics min/max) 

Device Time 10/30/2014 09:15:15.000 AM
Device Type PM5561

9:19 AM

Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-minmaxc]

File Edit Options View Window Help

PM.5561

Min/Max Voltage Min/Max Current Min/Max

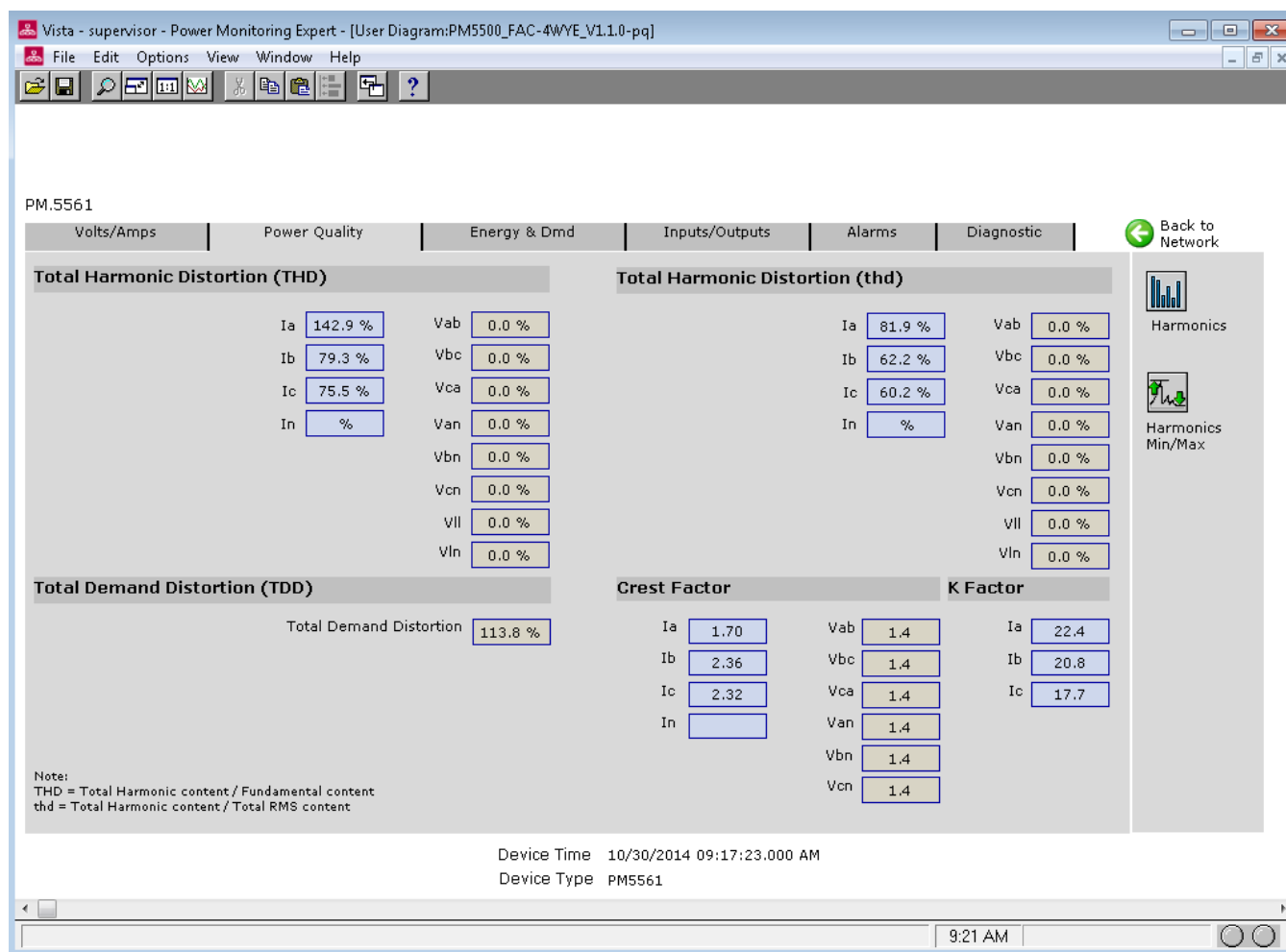
Back to Volts/Amps

Min		Max	
	Value		Value
Ia	0.00 A	Ia	0.45 A
Ib	0.00 A	Ib	0.41 A
Ic	0.01 A	Ic	0.42 A
In	A	In	A
Ig	A	Ig	A
I avg	0.00 A	I avg	0.41 A
I Unbal worst	0.0 %	I Unbal worst	189.4 %

Reset Min/Max
(also resets harmonics min/max)

Device Time 10/30/2014 09:16:00.000 AM
Device Type PM5561

Text Box 9:19 AM



Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-harmv]

File Edit Options View Window Help

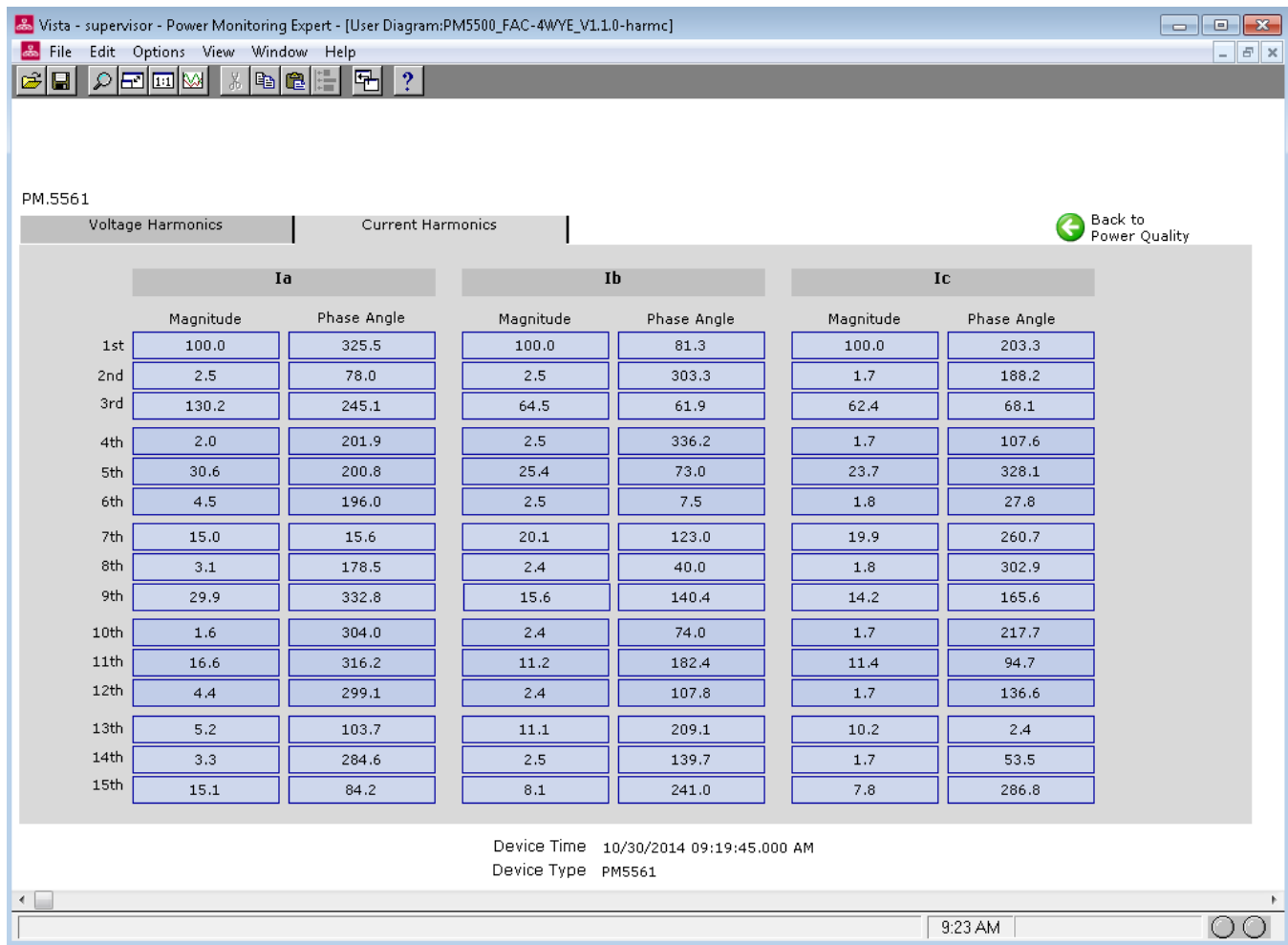
PM.5561

Voltage Harmonics | **Current Harmonics** [Back to Power Quality](#)

	Van		Vbn		Vcn	
	Magnitude	Phase Angle	Magnitude	Phase Angle	Magnitude	Phase Angle
1st	100.0	0.0	100.0	119.9	100.0	240.1
2nd	0.0	86.1	0.1	267.2	0.1	101.7
3rd	0.2	232.4	0.1	13.0	0.1	279.9
4th	0.0	164.0	0.1	38.6	0.1	278.7
5th	0.1	158.3	0.3	243.8	0.1	31.5
6th	0.0	200.3	0.0	39.2	0.0	162.0
7th	0.3	351.0	0.2	77.5	0.2	173.9
8th	0.0	106.8	0.0	185.8	0.0	308.8
9th	0.1	167.0	0.1	285.4	0.1	286.1
10th	0.0	275.1	0.0	46.0	0.0	78.3
11th	0.2	66.3	0.1	325.7	0.2	154.4
12th	0.0	46.0	0.0	196.8	0.1	328.4
13th	0.1	272.0	0.1	26.0	0.1	186.5
14th	0.0	76.3	0.0	141.7	0.0	311.3
15th	0.1	52.7	0.0	91.6	0.1	113.7

Device Time 10/30/2014 09:18:52.000 AM
Device Type PM5561

Text Box 9:22 AM



Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-harminmaxv]

File Edit Options View Window Help

PM.5561

Voltage Harmonics | Current Harmonics

Back to Power Quality

Min Total Harmonic Distortion (THD)		Min Total Harmonic Distortion (thd)	
Vab	0.0 %	Vab	0.0 %
Vbc	0.0 %	Vbc	0.0 %
Vca	0.0 %	Vca	0.0 %
Van	0.0 %	Van	0.0 %
Vbn	0.0 %	Vbn	0.0 %
Vcn	0.0 %	Vcn	0.0 %
Vll	0.0 %	Vll	0.0 %
Vln	0.0 %	Vln	0.0 %

Max Total Harmonic Distortion (THD)		Max Total Harmonic Distortion (thd)	
Vab	5.4 %	Vab	139.8 %
Vbc	3.0 %	Vbc	3.0 %
Vca	4.2 %	Vca	4.2 %
Van	0.0 %	Van	0.0 %
Vbn	0.0 %	Vbn	0.0 %
Vcn	0.0 %	Vcn	0.0 %
Vll	5.4 %	Vll	5.4 %
Vln	0.0 %	Vln	0.0 %

Reset Harmonics Min/Max (also resets volts/amps min/max)

Device Time 10/30/2014 09:22:28.000 AM
Device Type PM5561

Text Box 9:26 AM

Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-harminmaxc]

File Edit Options View Window Help

PM.5561

Voltage Harmonics | Current Harmonics

Back to Power Quality

Min Total Harmonic Distortion (THD)		Min Total Harmonic Distortion (thd)	
Ia	0.0 %	Ia	0.0 %
Ib	0.0 %	Ib	0.0 %
Ic	0.0 %	Ic	0.0 %
In	%	In	%

Max Total Harmonic Distortion (THD)		Max Total Harmonic Distortion (thd)	
Ia	162.9 %	Ia	85.2 %
Ib	164.5 %	Ib	85.4 %
Ic	138.0 %	Ic	81.0 %
In	%	In	%

Reset Harmonics Min/Max
(also resets volts/amps min/max)

Device Time 10/30/2014 09:23:33.000 AM
Device Type PM5561

Text Box 9:27 AM

Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-rev]

File Edit Options View Window Help

PM.5561

Volts/Amps Power Quality Energy & Dmd Inputs/Outputs Alarms Diagnostic

Back to Network

Demand

	Interval	Present	Predicted
kW	0	0	0
kVAR	0	0	0
kVA	0	0	0
Iavg	0	0	0

Reset All Dmd Interval

Demand Log

Energy

	kWh	kVARh	kVAh
imp	371.110	511.832	637.721
exp	0.034	3.418	0.645
net	371.076	508.414	637.076
total	371.144	515.250	638.366

Reset Accum Energies

Energy log

Peak Demand

kW	0	6/9/2014 01:47:18.000 PM
kVAR	0	10/27/2014 07:24:05.000 PM
kVA	0	6/9/2014 01:47:18.000 PM
Iavg	0	6/9/2014 01:47:18.000 PM

Reset Peak Power Dmd

Reset Peak Current Dmd

Multi Tariff

Device Time 10/30/2014 09:25:16.000 AM
Device Type PM5561

Text Box 9:29 AM

Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-tou-s-d]

File Edit Options View Window Help

PM.5561

[Back to Energy & Dmd](#)

Multi Tariff - Delivered

	Rate A	Rate B	Rate C	Rate D
Active Energy [kWh]	0	0	0	0
Reactive Energy [kVARh]	0	0	0	0
Apparent Energy [kVAh]	0	0	0	0

	Rate E	Rate F	Rate G	Rate H
Active Energy [kWh]	0	0	0	0
Reactive Energy [kVARh]	0	0	0	0
Apparent Energy [kVAh]	0	0	0	0

Multi Tariff Active Rate

[Reset Multi Tariff](#)

Device Time 10/30/2014 09:26:24.000 AM
Device Type PM5561

Text Box 9:30 AM

Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-dio]

File Edit Options View Window Help

PM.5561

Volts/Amps Power Quality Energy & Dmd Inputs/Outputs Alarms Diagnostic

Back to Network

Digital I/O

Inputs

Source	Counter Reset	Status	Count	Control Mode
Digital Input S1		Off	0	Alarm
Digital Input S2		Off	0	Alarm
Digital Input S3		Off	0	Alarm
Digital Input S4		Off	0	Alarm

Outputs

Source	Counter Reset	Status	Count	Operating Mode	Control Mode	Behavioral Mode
Digital Output D1		Off	0	Normal	External	Normal
Digital Output D2		Off	0	Normal	External	Normal

Input Metering

Device Time 10/30/2014 09:27:38.000 AM
Device Type PM5561

Text Box 9:31 AM

Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-inptmtr]

File Edit Options View Window Help

PM.5561 Back to Inputs/Outputs

Input Metering

Digital Input Association

Source	Pulse Weight	Digital Input Assoc
InpMtr Chan 1	0	0
InpMtr Chan 2	0	0
InpMtr Chan 3	0	0
InpMtr Chan 4	0	0

Demand

Source	Present	Last	Max	Max occurred at	Units
InpMtr Chan 1	0	0	0	5/7/2014 11:17:55.000 AM	No Units
InpMtr Chan 2	0	0	0	5/7/2014 11:17:55.000 AM	No Units
InpMtr Chan 3	0	0	0	5/7/2014 11:17:55.000 AM	No Units
InpMtr Chan 4	0	0	0	5/7/2014 11:17:55.000 AM	No Units

Cumulative Usage

Source	Usage	Units
InpMtr Chan 1	0	No Units
InpMtr Chan 2	0	No Units
InpMtr Chan 3	0	No Units
InpMtr Chan 4	0	No Units

Reset Peak Demand InpMtr 

Reset Accum InpMtr 

InpMtr Log 

Device Time 10/30/2014 09:28:59.000 AM
Device Type PM5561

Text Box 9:32 AM

Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-sp]

File Edit Options View Window Help

PM.5561

Volts/Amps			Power Quality			Energy & Dmd			Inputs/Outputs			Alarms			Diagnostic		
Source	Enabled	Status	Source	Enabled	Status	Source	Enabled	Status	Source	Enabled	Status	Source	Enabled	Status	Source	Enabled	Status
Over Current, Phase	No	Inactive	Over Voltage Unbalance	No	Inactive	Over Current, Earth	No	Inactive	Over Voltage THD	No	Inactive	Phase Loss	No	Inactive	Meter Power Up	Yes	Active
Under Current, Phase	No	Inactive	Over Voltage, L-L	No	Inactive	Over Current, Neutral	No	Inactive	Meter Reset	Yes	Active	Meter Diagnostic	No	Inactive	Phase Reversal	No	Inactive
Over Current, Neutral	No	Inactive	Under Voltage, L-L	No	Inactive	Over Voltage, L-N	No	Inactive	Digital Alarm DI1	No	Inactive	Digital Alarm DI2	No	Inactive	Digital Alarm DI3	No	Inactive
Over Voltage, L-L	No	Inactive	Over Voltage, L-N	No	Inactive	Under Voltage, L-N	No	Inactive	Digital Alarm DI4	No	Inactive	Custom Alarm 01	No	Inactive	Custom Alarm 02	No	Inactive
Over Voltage, L-N	No	Inactive	Over kW	No	Inactive	Over kVAR	No	Inactive	Custom Alarm 03	No	Inactive	Custom Alarm 04	No	Inactive	Custom Alarm 05	No	Inactive
Under Voltage, L-L	No	Inactive	Over kVA	No	Inactive	Lead PF, True	No	Inactive	Logic Alarm 1	No	Inactive	Logic Alarm 2	No	Inactive	Logic Alarm 3	No	Inactive
Over Voltage, L-N	No	Inactive	Lead PF, Displacement	No	Inactive	Lag PF, True	No	Inactive	Logic Alarm 4	No	Inactive	Logic Alarm 5	No	Inactive	Logic Alarm 6	No	Inactive
Over kW	No	Inactive	Lag PF, Displacement	No	Inactive	Over kW Dmd, Present	No	Inactive	Logic Alarm 7	No	Inactive	Logic Alarm 8	No	Inactive	Logic Alarm 9	No	Inactive
Over kVAR	No	Inactive	Over kW Dmd, Last	No	Inactive	Over kW Dmd, Predicted	No	Inactive	Logic Alarm 10	No	Inactive						
Over kVA	No	Inactive	Over kVAR Dmd, Present	No	Inactive	Over kVAR Dmd, Last	No	Inactive									
Lead PF, True	No	Inactive	Over kVAR Dmd, Predicted	No	Inactive	Over kVA Dmd, Present	No	Inactive									
Lag PF, True	No	Inactive	Over kVA Dmd, Last	No	Inactive	Over kVA Dmd, Predicted	No	Inactive									
Lead PF, Displacement	No	Inactive	Over Frequency	No	Inactive	Under Frequency	No	Inactive									
Lag PF, Displacement	No	Inactive															

Device Time 10/30/2014 09:30:04.000 AM
Device Type PM5561

9:33 AM

Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-overalarmone]

File Edit Options View Window Help

PM.5561

Over Alarm - 1 Over Alarm - 2 Under Alarm Digital/Unary Alarm  Back to Alarms

Over Alarm Setup - 1

Source	Pickup		Dropout		Enabled	Priority	Digital O/P
	Setpoint	Delay(secs)	Setpoint	Delay(secs)			
Over Current, Phase	0.00 A	0.00	0.00 A	0.00	No	None	None
Over Current, Neutral	0.00 A	0.00	0.00 A	0.00	No	None	None
Over Current, Ground	0.00 A	0.00	0.00 A	0.00	No	None	None
Over Voltage, L-L	0.00 V	0.00	0.00 V	0.00	No	None	None
Over Voltage, L-N	0.00 V	0.00	0.00 V	0.00	No	None	None
Over kW	0.00 kW	0.00	0.00 kW	0.00	No	None	None
Over kVAR	0.00 kVAR	0.00	0.00 kVAR	0.00	No	None	None
Over kVA	0.00 kVA	0.00	0.00 kVA	0.00	No	None	None
Lead PF, True	1.00	0.00	1.00	0.00	No	None	None
Lead PF, Displacement	1.00	0.00	1.00	0.00	No	None	None
Over Voltage THD	0.00 %	0.00	0.00 %	0.00	No	None	None

Device Time 10/30/2014 09:31:05.000 AM
Device Type PM5561

Text Box 9:34 AM

Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-overalarmtwo]

File Edit Options View Window Help

PM.5561

Over Alarm - 1 Over Alarm - 2 Under Alarm Digital/Unary Alarm  Back to Alarms

Over Alarm Setup - 2

Source	Pickup		Dropout		Enabled	Priority	Digital O/P
	Setpoint	Delay(secs)	Setpoint	Delay(secs)			
Over KW Dmd, Present	0.00 kW	0.00	0.00 kW	0.00	No	None	None
Over kW Dmd, Last	0.00 kW	0.00	0.00 kW	0.00	No	None	None
Over kW Dmd, Predicted	0.00 kW	0.00	0.00 kW	0.00	No	None	None
Over kVAR Dmd, Present	0.00 kVAR	0.00	0.00 kVAR	0.00	No	None	None
Over kVAR Dmd, Last	0.00 kVAR	0.00	0.00 kVAR	0.00	No	None	None
Over kVAR Dmd, Predicted	0.00 kVAR	0.00	0.00 kVAR	0.00	No	None	None
Over kVA Dmd, Present	0.00 kVA	0.00	0.00 kVA	0.00	No	None	None
Over kVA Dmd, Last	0.00 kVA	0.00	0.00 kVA	0.00	No	None	None
Over kVA Dmd, Predicted	0.00 kVA	0.00	0.00 kVA	0.00	No	None	None
Over Frequency	0.00 Hz	0.00	0.00 Hz	0.00	No	None	None
Over Voltage Unbalance	0.00 %	0.00	0.00 %	0.00	No	None	None

Device Time 10/30/2014 09:32:10.000 AM
Device Type PM5561

Text Box 9:36 AM

Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-underalarm]

File Edit Options View Window Help

PM.5561

Over Alarm - 1 Over Alarm - 2 Under Alarm Digital/Unary Alarm [Back to Alarms](#)

Under Alarm Setup

Source	Dropout		Pickup		Enabled	Priority	Digital O/P
	Setpoint	Delay(secs)	Setpoint	Delay(secs)			
Under Current, Phase	0.00	A	0.00	A	No	None	None
Under Voltage, L-L	0.00	V	0.00	V	No	None	None
Under Voltage, L-N	0.00	V	0.00	V	No	None	None
Lag PF, True	0.00		0.00		No	None	None
Lag PF, Displacement	0.00		0.00		No	None	None
Under Frequency	0.00	Hz	0.00	Hz	No	None	None
Phase Loss	0.00	V	0.00	V	No	None	None

Device Time 10/30/2014 09:38:19.000 AM
Device Type PM5561

Text Box 9:42 AM

Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-digitalunaryalarmset]

File Edit Options View Window Help

PM.5561

Over Alarm - 1 Over Alarm - 2 Under Alarm Digital/Unary Alarm [Back to Alarms](#)

Digital Alarm Setup

Source	Setpoint	Pickup Delay (secs)	Dropout Delay (secs)	Enabled	Priority	Digital O/P
Digital Alarm DI1	OFF2ON	0.00	0.00	No	None	None
Digital Alarm DI2	OFF2ON	0.00	0.00	No	None	None
Digital Alarm DI3	OFF2ON	0.00	0.00	No	None	None
Digital Alarm DI4	OFF2ON	0.00	0.00	No	None	None

Unary Alarm Setup

Source	Enabled	Priority	Digital O/P
Meter Power Up	Yes	Low	None
Meter Reset	Yes	Low	None
Meter Diagnostic	No	None	None
Phase Reversal	No	None	None

Device Time 10/30/2014 09:39:57.000 AM
Device Type PM5561

Text Box 9:43 AM

Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-diag]

File Edit Options View Window Help

PM.5561

Volts/Amps	Power Quality	Energy & Dmd	Inputs/Outputs	Alarms	Diagnostic
Power Meter Module					
VT Primary	120.0 V				
VT Secondary	120.0 V				
CT Primary	5.0 A				
CT Secondary	5.0 A				
VT Connection Type	Direct Connect				
Nominal Voltage	230.0 V				
Nominal Current	5.0 A				
Nominal Frequency	50.0 Hz				
Nominal Phase Rotation	ABC				
System Restart Counter	44.0				
Control Power Outage Counter	14.0				
Cause of Last Meter Reset	Power Outage				
Volts Mode	3-phase 4-wire Wye Ungrounded				
Miscellaneous					
Meter On Duration	208 Hrs				
Revenue Security Status	Inactive				
Demand Interval					
Power (in mins)	15.0				
Power Sub-Interval (in mins)	15.0				
Current (in mins)	15.0				
Current Sub-Interval (in mins)	15.0				
Diagnostic Indication					
Meter Error	No				
RAM Error	No				
NVRAM Error	No				
RTC Error	No				
Calibration Error	No				
Clipping	No				
Calculation Method					
Power Demand	Sliding - Timed Interval Block				
Current Demand	Sliding - Timed Interval Block				
Serial Number 608,000,050 F/W Rev 10,000					

Device Time 10/30/2014 09:41:16.000 AM
Device Type PM5561

Text Box 9:45 AM

Back to Network
Maintenance Log
Maintenance Event Log
Log Resets

Vista - supervisor - Power Monitoring Expert - [User Diagram:PM5500_FAC-4WYE_V1.1.0-reseteventcnt]

File Edit Options View Window Help

PM.5561 Back to Diagnostic

Maintenance Log - Resets

Resets		Events	
Min/Max		Miscellaneous	
	Last Operation		Last Operation
Long Term		Last Control Power Outage	10/21/2014 05:57:59.000 PM
Power Demand		Last Unit Restart	10/21/2014 06:16:43.000 PM
Current Demand			
Energy			
	Last Operation		
Accumulated	4/24/2014 03:28:54.000 PM		
Multi Tariff	4/24/2014 03:28:54.593 PM		

Device Time 10/30/2014 09:45:16.000 AM
Device Type PM5561

196x21 Numeric Object: DT Last Reset Peak Dmd Currents@PM.5561 9:49 AM

