



Schneider Electric PM8000 Series Configuring Time Information using ION Setup User Guide

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You can set the time and date and configure the time synchronization settings using ION Setup.

NOTE: The clock screen is where you set the start day of the week for the time of use feature.

NOTE: You must manually adjust the date and time information if the device is installed in a different time zone location from the computer running ION Setup.

1. Start ION Setup.
2. Open the Setup Assistant for your device.
3. Click Clock > Timezone tab.
4. Select any parameter and click TimeSync to synchronize your device's date and time with the computer that is running ION Setup.
5. Click DST Settings to modify your meter's daylight savings time start and end dates, if required.
6. Select the parameter that you want to configure and click Edit. Enter the password if prompted.

Parameter	Value	Description
TimeZone	–	Sets the timezone based on the timezones available from the computer's operating system. NOTE: This is also where you can synchronize your meter's DST settings with the computer's.
		Specifies the time format of the time sync message.
Time Sync Type	UTC or LOCAL	UTC (Coordinated Universal time) is equivalent to Greenwich Mean Time (GMT). LOCAL is the local time with DST and time zone information applied.
		For SNTP/NTP and PTP time synchronization, set the Time Sync Type to UTC .

Parameter	Value	Description
		Sets which device port accepts time synchronization messages.
	COM1, ETHERNET,	Time synchronization messages on other ports are ignored.
Time Sync Source	ETHERNET – ION, ETHERNET – DNP, ETHERNET – PTP,	For GPS time synchronization, set the Time Sync Source to COM1 . For SNTP/NTP time synchronization, set the Time Sync Source to ETHERNET .
	IRIG-B	For ION time synchronization, set the Time Sync Source to ETHERNET – ION .

		For DNP time synchronization, set the Time Sync Source to ETHERNET – DNP .
		For PTP time synchronization, set the Time Sync Source to ETHERNET – PTP .
		For IRIG-B time synchronization, set the Time Sync Source to IRIG-B .
Clock Source	Internal, Line Freq, COMM	Sets the source for the clock: Internal: the meter's internal clock. Line Freq: the measured line frequency of the power system is the clock source. COMM: the meter's communication port (used by the IRIG-B, GPS or ETHERNET – PTP time sync source).
Numeric Bounded DST Offset Format/Elapsed Interval Format		Specifies the amount of time the displayed local time is moved forward when entering Daylight Savings. A value of zero disables this feature and local time is not adjusted for DST.
Start of the Week	Monday–Sunday	Specifies the start day of the week used for Trending and Forecasting. NOTE: Changing the start day of the week clears all trending and forecasting data.

7. If using SNTP/NTP time synchronization, enter the following information under Communications > Advanced Ethernet > NTP:

Parameter	Value	Description
Enable NTP Time Sync	NTP, SNTP, No	NTP: specifies NTP time synchronization. SNTP: specifies SNTP time synchronization. NOTE: SNTP is recommended for revenue-related applications. No: neither NTP nor SNTP time synchronization are used.
NTP Time Sync Interval	Numeric value or elapsed interval value	Specifies how often the meter synchronizes over SNTP. NOTE: This parameter is not used for NTP.
Event Logging Threshold (NTP and PTP only)	0.000001 to 1.000000	Specifies the minimum time difference (in seconds) for a time synchronization to be logged as an event. This parameter can be configured to help prevent the meter's event log from being flooded with time synchronization events.
NTP Server	Server IP address or domain name	Specifies the IP address (or fully qualified domain name if DNS is active) of the SNTP or NTP server.

8. If using serial GPS time synchronization, enter the following information under Communications > Serial settings:

Parameter	Description
Protocol	Select the GPS setting that matches your GPS receiver.
Baud rate	The recommended baud rate for GPS time synchronization is 9600 bps.
Serial port	The recommended stop bits/parity for GPS time synchronization is 8N1.

Configuring time information using the display

Use the meter's display to configure time parameters.

NOTE: If your device is installed in a region where DST is observed, it is recommended to use ION Setup to configure the time zone for your locale.

1. Press Setup Menu > Date/Time/Clock Setup > Date & Time Setup.
2. Configure your time and date formats, time zone offset, and daylight savings time offset. Press the down button to access the Clock Setup screen.
3. Configure the clock and time synchronization source, and the time synchronization time format.

Date and time setup

Parameter	Values	Description
Time Format	12 H, 24 H	Specifies how the time is displayed.
Date Format	MM/DD/YYYY, DD/MM/YYYY, YYYY/MM/DD	Specifies how the date is displayed.
TZ Offset	-12:00:00 to 13:00:00	Sets the time zone of the meter's location, relative to UT C.
DST Offset	-3:00:00 to 3:00:00	Sets the daylight savings time offset of the meter's location.

Clock setup

Parameter	Values	Description
Internal, Line Freq, Clock Source COMM		Specifies the time synchronization source.
COM1, ETHERNET,		
ETHERNET – ION,		
Time Sync		Specifies the port to receive time
ETHERNET – DNP,		
Source		synchronization signals.
ETHERNET – PTP,		
IRIG-B		
Time Sync Type	UTC, Local	Specifies whether time synchronization signals are received in local time or UTC.



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