What's new for Power and Energy Monitoring Systems — November 2019

This update provides a summary of technological advances in the Power and Energy Monitoring System offers, and the technical documentation accompanying their release.

New product offer: PowerLogic™ ION9000T

The ION9000T supports all the features of the ION9000 series meter, plus high-speed transient capture (HSTC). Specialized components and circuitry in the ION9000T allow it to record very fast transients not detectable by other power meters.

Monitoring and analyzing high-speed transients allows the user to identify and understand the impact transients may have on their electrical network.

ION9000T commercial references

- METSEION95030: base meter without a display
- METSEION95040: base meter with large full-color touchscreen display (METSERD192)

New firmware version 2.2.1

New and updated features in firmware version 2.2.1 (V002.002.001) apply to the following devices:

- ION9000 series meters, including ION9000T models
- PM8000 series meters
- ION7400 series meters

Secure protocols

Firmware version 2.2.1 supports secure file transfer protocol (SFTP). SFTP completely replaces FTP. SFTP adds a layer of encryption, through secure socket shell (SSH), that helps prevent unauthorized access, uploads and downloads to the meter. SFTP is used for uploading web pages, transferring COMTRADE files, and for upgrading I/O modules and remote displays.

NOTE: FTP and Telnet protocols are no longer supported.

DNP inactivity timeout

Firmware version 2.2.1 includes a new setup register that you can use to configure DNP timeouts.

Use the *Inactivity Timeout* register to define how long a meter waits before timing out after no DNP traffic is detected on the port.

NOTE: This timeout only applies if the communications port is set to ETHERNET.

As standards, specifications, and design change from time to time, please ask for confirmation of the information given in this publication.

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For more information on the DNP Slave Options module, refer to the latest *ION Reference* (November 2019 or later revision), available from the website.

Meter configuration software

Use the latest version of ION Setup (version 3.2 or later) to configure your meters.

ION Setup version 3.2 (or later) is required to view high-speed transient capture (HSTC) waveforms and data, and to update meter web pages, option modules and remote displays via SFTP

Go to *https://www.se.com/ca/en/download/document/ION_Setup_Latest_Release/* to download the latest version.

Technical documentation

New and updated content for the following documents are available from the website.

User manuals

PowerLogic™ ION9000 series user manual

- New: High-speed Transient Capture (HSTC) section
- Update: Added secure FTP (SFTP) and secure shell (SSH) support

PowerLogic™ PM8000 series user manual

Update: Added secure FTP (SFTP) and secure shell (SSH) support

PowerLogic™ ION7400 series user manual

Update: Added secure FTP (SFTP) and secure shell (SSH) support

ION Reference

Download the *latest ION Reference* (November 2019 or later revision) from the website.

New ION modules:

- HSTC module
- Data Set Recorder module
- HSTC Waveform Recorder module

Updated ION modules:

- DNP Slave Options module

Technical notes

IEC 61000-4-30 compliance and ION meters technical note

New content:

- Added power quality parameters relevant to the IEC 61000-4-30 standard
- Added Flagging concept topic

Updated content: Clarified description of Class A measurement