

PowerLogic™ Advanced Utility Meters



Presented by: Maaz Hasan

Advanced Meters

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Offer updates and Measurement Canada approvals

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PLES ION Device Package



A close-up, dark, and slightly blurred photograph of a Schneider Electric device, likely a power supply or control unit. The device is black with a prominent silver or light-colored Schneider Electric logo on the right side. The logo consists of the word "Schneider" in a bold, sans-serif font above the word "Electric" in a smaller font, with a stylized 'E' symbol between them. The background is a dark, gradient grey.

01

Offer Updates and Measurement Canada Approvals

ION8650

Offer Updates

- The latest and recommended Firmware version is V4.40.1
- Continued focus on security and product robustness
- Removed support for Telnet and FTP – replaced by SSH and sFTP
- HTTP protocol moved to read-only – configuration support removed
- Fully developed under our new TUV Certified SDL process (IEC62443-4-1 & 2)



Certificate



No.: 968/FSP 2315.00/22

Product tested	Edge IoT server	Certificate holder	Schneider Electric 2195 Keating Cross Road Saanichton, BC V8M 2A5 Canada
Type designation	EcoStruxure™ Site Server		
Codes and standards	IEC 62443-4-1:2018 (Edition 1.0)	IEC 62443-4-2:2019 (Edition 1.0)	
Intended application	The EcoStruxure™ Site Server complies with the requirements according to IEC 62443-4-1 and Security Capability Level 1 (SL-C 1) for embedded devices according to IEC 62443-4-2.		
Specific requirements	The instructions of the associated User Manual released by manufacturer must be considered. The current versions of the product are specified in the currently valid Revision List. The Revision List is released by the manufacturer in cooperation with the certification body.		

Valid until 2027-02-15

The issue of this certificate is based upon an examination, whose results are documented in Report No. 968/FSP 2315.00/22 dated 2022-02-15.
This certificate is valid only for products which are identical with the product tested.

TÜV Rheinland Industrie Service GmbH
Bereich Automation
Funktionale Sicherheit
Am Grauen Stein, 51105 Köln

Köln, 2022-02-15

Dipl.-Ing. Thomas Steffens

Certification Body Safety & Security for Automation & Grid

New RMICAN approved applications

ION8650

Cell Modem Communications – 4G/LTE option

- Will require V4.40.1
- Available default carrier Rogers
- Comm Order option- S3

Onboard Fiber-Ethernet comm option

- Minimum FW should be V4.20.1
- Comm order option- F1



RMICAN approved for 10-year seal

PM8000 & ION7400 V4.5.00

Introducing the new feature-sets



ION7400

Introducing the new feature-sets



ION7400 Essential



ION7400 Standard



ION7400 Advanced

Introducing the New Variants



ION7400 Essential



ION7400 Standard



ION7400 Advanced

Active Energy accuracy	Class 0.2	Class 0.2	Class 0.2
PQ compliance	No compliance	IEC61000-4-30 class S	IEC61000-4-30 class A
PQ measurements	THD, individual harmonics Sag / swell Waveform capture	THD, individual harmonics Sag / swell Waveform capture DDD RVC	THD, individual harmonics Sag / swell Waveform capture DDD Flicker RVC
Memory / Data Recorders	64 MB 10 data recorders	512 MB 50 data recorders	512 MB 64 data recorders
Sampling rate	128 samples per cycle	256 samples per cycle	512 samples per cycle
ION programmability	Yes	Yes	Yes

Advanced Meters

04

The Future

A close-up, low-angle shot of a dark-colored Schneider Electric meter. The meter is mounted on a vertical surface. The Schneider Electric logo, consisting of the word "Schneider" above a stylized "E" symbol and the word "Electric" below it, is clearly visible on the right side of the meter's face. The lighting is dramatic, with strong highlights and deep shadows, emphasizing the metallic texture and the precision of the device.

Schneider
Electric

Our Continued Focus

True Reliability

- > Our customers rely on our device's data to make critical financial and operational decisions

Accuracy and Robustness

Anti-tampering features

Data Integrity/ Cyber-security

Supply chain-security

Tangible Results

- > Our customers need our devices to provide actionable and easy to understand power quality information

PQ Compliance Reporting

Smart event analysis & 3rd party apps (open protocols)?

Enabling swift root-cause analysis

Simultaneous communication

Wide Versatility

- > Flexible to adapt to the needs of ever-changing modern electric grid

ION Programmability

Modular Hardware

Field upgradable

Our Continued Focus

ION8700: Next Generation Socket Meter

True Reliability

- > Our customers rely on our device's data to make critical financial and operational decisions

Tangible Results

- > Our customers need our devices to provide actionable and easy to understand power quality information

Wide Versatility

- > Flexible to adapt to the needs of ever-changing modern electric grid



General Announcement

Utility Open House – Victoria, BC

Dates: September 2025 – TBC

Advanced Meters

05

PLES-ION Device Package

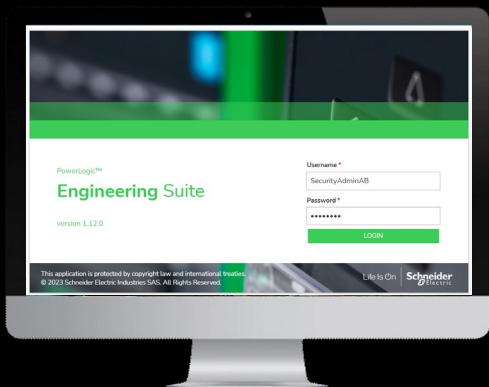
Schneider
Electric

PLES ION Device Package

An easy-to-use ION Meters configuration tool providing versatile functionalities

An easy-to-use tool providing versatile functionalities required throughout the life cycle of PowerLogic™ ION Meters

PowerLogic Engineering Suite



PowerLogic Engineering Suite (PLES) for PowerLogic connected devices enabling Panel Builders & System Integrators, and end-users, to seamlessly configure, integrate & maintain the products.

SIMPLE

- One configuration tool for all Schneider Electric Connected Products
- Flexible to adapt for multiple Personas
- User Experience driven with intuitive configuration journey

EASY

EFFICIENT

- Save Time by re-using pre-configured offline devices
- Optimized task-based workflows (Reducing the need for switching modes)
- Tasks running in the background

ENGAGING

RELIABLE

- Fail-safe template paste
- Database backed-up workspace
- Secure by Design - IEC62443 & NERC

ENABLING

Data logging

Task-based workflows: everything at your fingertips

- Direct access to all the onboard data logs
- Configuration and data retrieval in the same view (No switching)
- Precise control over data retrieval
- Filtering, searching, and sorting capabilities- eliminates the need for in-depth knowledge of ION

Name	Description	Depth	Interval	Status	Actions
Data Rec 1	Revenue Log	3360 (35.0 days)	00:15:00	Enabled	⌵ ⌶ ⌷
Data Rec 2	Hist mean Log	3360 (35.0 days)	00:15:00	Enabled	⌵ ⌶ ⌷
Data Rec 3	Hist High Log	3360 (35.0 days)	00:15:00	Enabled	⌵ ⌶ ⌷
Data Rec 4	Hist Low Log	3360 (35.0 days)	00:15:00	Enabled	⌵ ⌶ ⌷
Data Rec 5	Exp/Save Log	100		Enabled	⌵ ⌶ ⌷
Data Rec 6	Signle HV Log	18010		Enabled	⌵ ⌶ ⌷
Data Rec 7	Harm mean Log	840		Enabled	⌵ ⌶ ⌷
Data Rec 8	Harm High Log	840 (25.0 days)	02:00:00	Enabled	⌵ ⌶ ⌷
Data Rec 9	Loss Log	3360 (35.0 days)	00:15:00	Enabled	⌵ ⌶ ⌷
Data Rec 10	Exp/Dev Log	3360 (35.0 days)	00:15:00	Enabled	⌵ ⌶ ⌷
Data Rec 11	EN60360-Pharm2	8440		Disabled	⌵ ⌶ ⌷
Data Rec 12	EN60360-Pharm3	8440		Disabled	⌵ ⌶ ⌷
Data Rec 13	513 Min-V-2	730		Disabled	⌵ ⌶ ⌷
Data Rec 14	513 Min-V-2	730		Disabled	⌵ ⌶ ⌷

Name	Description	Depth	Interval
Data Rec 1	Revenue Log	3360 (35.0 days)	00:15:00
Data Rec 2	Hist mean Log	3360 (35.0 days)	00:15:00
Data Rec 3			00:15:00
Data Rec 4			00:15:00
Data Rec 5			00:15:00
Data Rec 6			00:15:00
Data Rec 7			00:15:00
Data Rec 8			01:00:00
Data Rec 9	Loss Log	3360 (35.0 days)	00:15:00

Download Settings

All available records

Last

From

Until

Link Parameters

Available Inputs: Source 5-19

Selected Parameters (0/15)

Parameters ▾

- > Integrator Modules
- > Maximum Modules
- > Store Modules
- > SWinDemand Modules

del A

- kVARh del A
- kVAh del A
- kW pr del A
- kW sd del A
- kW mx del A
- kWh del A

Show all registers Link Multiple

< Previous

Modbus Mapping

Task-based workflows:
everything at your fingertips

- Visually inspect the **CUSTOM** Modbus map before importing
- Feedback on scaling for the **CUSTOM** Modbus map
- Enabling/disabling **DEFAULT** mapping with a single click
- Visualize the **DEFAULT** Modbus map with details about address and register type (No switching)

Custom

Import Modbus Registers

Import File Overview

Parameter	Address	Registers	Format	Scaling
kVAR sd del...	1104	4	Signed 64	0.01
kW tot	1102	2	IEEE Float	10
Vll ca	1100	2	Signed 32 M10	10
kVAR sd mx ...	1010	2	Signed 32 M10	None
I avg	1009	1	Signed 16	None
kW a	1008	1	Signed 16	None
Vlln a	1006	2	Signed 32	100
IM1 Consump...	1004	2	Signed 32	None
Cnd kVAh d+r	1002	2	Signed 32	0.01

Import Cancel

Default

MODBUS SERVER

Default Modbus Map

Enable

Status	Data Mapping Segment	Input Name	Linked Register	Address	Register Type
Enabled	Energy				
Enabled	Demand				
Enabled	EN50160 Current Interval				
Enabled	EN50160 Previous Interval				
Enabled	Power Meter Measurements				
Enabled	Power Quality				
Enabled	Statistical Low, Mean, and High				
Enabled	Time-of-Use				

Custom Modbus Map

Import Export

0 Create Mapping Show Legend

Custom Modbus Map

Import Export

0 Create Mapping Show Legend

Parameter	Address	Registers	Format	Scaling	Input Value	Output Value
kVAR sd del-rec	1104	4	Signed 64	0.01	0	0
kW tot	1102	2	IEEE Float	10	14399198	14399198
Vll ca	1100	2	Signed 32 M10	10	20783392	2078
kVAR sd mx del	1010	2	Signed 32 M10	None	0	0
I avg	1009	1	Signed 16	None	4.3331366	4
kW a	1008	1	Signed 16	None	0.42287918	0
Vlln a	1006	2	Signed 32	100	120.00041	12000
IM1 Consumption	1004	2	Signed 32	None	0	0
Cnd kVAh d-r	1002	2	Signed 32	0.01	0	0
Cnd kVAh del	1001	1	Signed 16	None	0	0

Default Modbus Map

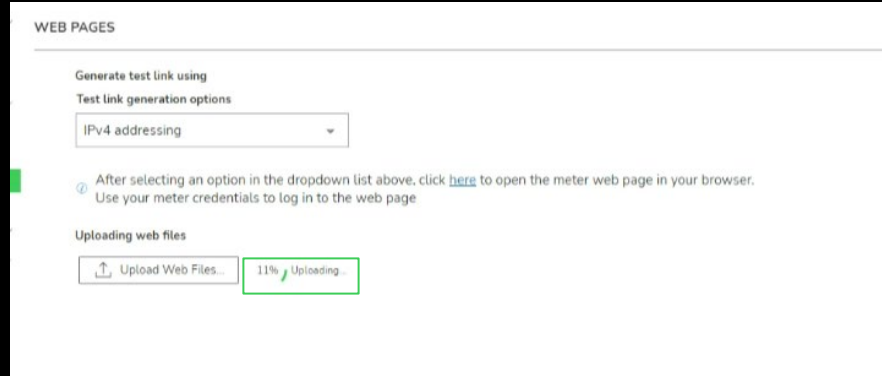
Enable

Status	Data Mapping Segment	Input Name	Linked Register	Address	Register Type
Enabled	Energy				
		kWh del	kWh del	2700	INT32
		kWh rec	kWh rec	2702	INT64
		kWh d plus r	kWh del+rec	2704	INT16
		kWh d minus r	kWh del-rec	2706	INT32-M10K
		kVAh del	kVAh del	2718	
		kVAh-rec	kVAh-rec	2720	
		kVAh d plus r	kVAh del+rec	2722	
		kVAh d minus r	kVAh del-rec	2724	
		kVAh del	kVAh del	2708	
		kVAh rec	kVAh rec	2710	
		kVAh d plus r	kVAh del+rec	2712	
		kVAh d minus r	kVAh del-rec	2714	
		kWh Q1	kWh Q1	2724	
		kWh Q2	kWh Q2	2726	
		kWh Q3	kWh Q3	2728	

Webpage upload

Task running in the background: multitasking during configuration

- Long-term operations can be run in the background
- Opportunity to implement it for other operations (Firmware UPG, Template, etc.)



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Electric

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