

Life Is On

Schneider  
Electric

# PowerLogic ION7400

Compact, 3-phase multifunction energy and power quality compliance meters ideally suited for utility feeder applications



[schneider-electric.us/utilitymetering](http://schneider-electric.us/utilitymetering)

## Accuracy, precision, and performance

- High quality, reliability, and accuracy: 3-phase power and energy measurements with power quality compliance monitoring, data and event logging, and alarming
- Industry-leading: ANSI Class 0.2 revenue metering and network management data
- Regulatory compliance: meets all North American requirements for utility metering
- Built-in intelligence: RTU functionality polls downstream devices such as other meters, relays or telemetry devices
- Exceptional adaptability: integrates into existing billing, SCADA and fault analysis systems
- Reduces downtime: pinpoints disturbances with patented Disturbance Direction Detection
- Provides a high degree of visibility to system data and assets that allows for cost savings, rapid response time, and informed decisions
- Cybersecurity hardened to address NERC/CIP and IEC guidelines



Integrated display

## Flexible and modular

- Integrates into existing billing/SCADA systems
- 'Out of the box' connectivity with open, scalable EcoStruxure™ Power Monitoring Expert and PowerSCADA software platforms
- Extensive data access options: utility-focused HMI, ANSI Type 2 optical port, USB port, multi-protocol communications (including IIRIG-B), and calibration pulsing
- Dual-port Ethernet can be looped or ring configured and allows concurrent protocols
- Digital I/O for status monitoring, alarming, and pulse metering
- Analog I/O integrates with existing legacy systems, track sensors, or fuel levels
- Modbus Master, Ethernet-to-serial gateway capabilities



Panel mount meter (bottom)

## Object-oriented intelligence

- Unique, fully-functional object-oriented ION technology allows tremendous flexibility and creativity
- Modular design makes it possible to customize features or functions to suit your specific needs
- Protects your infrastructure investment, now and in the future
- Device-embedded intelligence and network connectivity improves productivity



Expandable I/O

## PQ compliance reporting, PQ analysis

- Monitors and logs parameters that support multiple international PQ compliance measurement standards
- Harmonics: high resolution waveform capture and Flicker influence
- Power Quality: report by exception sag / swell and waveform events



DIN rail mount with remote display

## Alarming and control

- 50+ definable alarms to log critical event data, trigger waveform recording, or perform control
- Trigger on any condition, with cycle-by-cycle and 1-second response time
- Combine alarms using Boolean logic and to create alarm levels
- Alarm notification via email text message
- Use EcoStructure Power Monitoring Expert software to categorize, trend, and evaluate conditions

## Quality

ISO 9001 and ISO 14000 certified manufacturing to ensure your investment retains value and precision

## Green Premium eco-mark

Confidently confirm and incorporate compliance status of our products into your environmental policies.

Schneider Electric commits to disclose reliable, comprehensive information on the environmental impacts of our products.

## PowerLogic ION7400

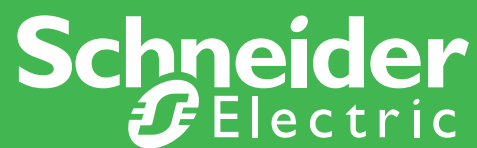
PowerLogic™ ION7400 meters, combined with EcoStruxure Power Monitoring Expert, PowerSCADA software – or with an existing SCADA system – are key components within a comprehensive power management system

### ION7400 series features

Intermediate meter		
General		
Use on LV and MV systems		●
Current accuracy (5A Nominal)		0.1 % reading
Voltage accuracy (57 V LN/100 V LL to 400 V LN/690 V LL)		0.1 % reading
Active energy accuracy		0.2 %
Number of samples/cycle or sample frequency		256
Instantaneous rms values		
Current, voltage, frequency		●
Active, reactive, apparent power	Total and per phase	●
Power factor	Total and per phase	●
Current measurement range (autoranging)		0.05 - 10A
Energy values		
Active, reactive, apparent energy		●
Settable accumulation modes		●
Demand values		
Current	Present and max. values	●
Active, reactive, apparent power	Present and max. values	●
Predicted active, reactive, apparent power		●
Synchronization of the measurement window		●
Setting of calculation mode	Block, sliding	●
Power quality measurements		
Harmonic distortion	Current and voltage	●
Individual harmonics	Via front panel and web page	63
	Via EcoStruxure software	127
Waveform capture		●
Detection of voltage swells and sags		●
Fast acquisition	1/2 cycle data	●
EN 50160 compliance checking		●
Customizable data outputs (using logic and math functions)		●
Data recording		
Min/max of instantaneous values		●
Data logs		●
Event logs		●
Trending/forecasting		●
SER (Sequence of event recording)		●
Time stamping		●
GPS synchronization (+/- 1 ms)		●
Memory (in Mbytes)		512
Display and I/O		
Front panel display		●
Wiring self-test		●
Pulse output		1
Digital or analog inputs(max)		27 digital 16 analog
Digital or analog outputs (max, including pulse output)		1 digital 8 relay 8 analog
Communication		
RS 485 port		1
Ethernet ports		2
Serial port (Modbus, ION, DNP3)		●
Ethernet port (Modbus/TCP, ION TCP, DNP3 TCP, IEC 61850 )		●
Ethernet gateway		●
Alarm notification via email		●
HTTP web server		●
SNMP with custom MIB and traps for alarms		●
SMTP email		●
NTP time synchronization		●
FTP file transfer		●

For complete technical specifications, see ION7400 technical data sheet document number: PLS-ED310113EN

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Learn more at  
[www.schneider-electric.us/utilitymetering](http://www.schneider-electric.us/utilitymetering)

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