PowerLogic™ ION7400 Series Technical Datasheet

Providing high accuracy and a wide range of features for transmission and distribution metering, the versatile PowerLogic™ ION7400 series advanced utility meter has the flexibility to change along with your needs.

- · Compact 3-phase, multifunction energy and power quality compliance
- Flexible and modular installation with object-oriented intelligence
- Accurate, precise, and highly adaptable metering

Applications

- Substation feeder metering
- Revenue metering
- · Extensive power quality monitoring and cause analysis
- End feeder line monitoring
- · Digital fault recording





The solution for

Markets that can benefit from a solution that includes PowerLogic™ ION7400 series meters:

- Transmission networks
- Distribution network

Benefits

- Reduce operations costs
- Improve power quality
- · Improve continuity of service

Competitive advantages

- Be able to use Power Monitoring Expert software for data analysis or share operation data with SCADA systems through multiple communication channels and protocols
- Transformer/line loss compensation
- Instrument transformer correction
- Utilize Disturbance Direction Detection to help locate fault

Power management solutions

Schneider Electric provides innovative power management solutions to increase your energy efficiency and cost savings, maximise electrical network reliability and availability, and optimise electrical asset performance.

Conformity of standards

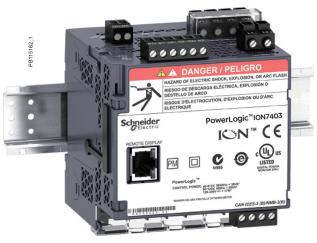
- ANSI C12.20
- IEC 61557-12
- CLC/TTR50579
- IEC 61850
- EN 50160
- IEC 62052-11
- IEC 61000-4-7
- IEC 62053-22
- IEC 61000-4-15
- IEC 62053-23
- IEC 61000-4-30
- IEC 62586
- IEC 61010-1
- IEEE 519
- IEC 61326



PowerLogic™ ION7400 DIN rail mounted meter- bottom view



PowerLogic™ ION7400 meter - rear view



PowerLogic™ ION7400 DIN rail mounted meter



PowerLogic™ ION7400 meter showing active alarms.



PowerLogic™ ION7400 with Harmonics display.



PowerLogic™ ION7400 series meter with phasor display.

Applications and benefits

- Maximize profits by providing the highest output possible with the least amount of risk to availability
- Optimize availability and reliability of electrical systems and equipment
- Monitor power quality (PQ) for compliance and to prevent problems
- Meters fully supported by EcoStruxure[™] Power Monitoring Expert and EcoStruxure[™] Power Operation software

Main characteristics

- · Precision metering:
 - IEC 61557-12 PMD/Sx/K70/0.2 3000m (performance measuring and monitoring functions)
 - IEC 62053-22 for active energy Class 0.2s accuracy and 0.5s accuracy, ANSI C12.20 Class 0.2 for active energy
 - IEC 62053-23 for reactive energy Class 2 accuracy and Class 3
 - Cycle-by-cycle RMS measurements updated every ½ cycle
 - Full 'multi-utility' WAGES metering support
 - Net meterina
 - Anti-tamper protection seals and hardware metrology lock
 - Test mode
- PQ Compliance and basic PQ analysis.
 - Monitors and logs parameters in support of international PQ standards,
 - IEC 61000-4-30 Class A/S
 - IEC 61000-4-15 Flicker
 - IEC 62586
 - EN 50160
 - Generates onboard PQ compliance reports accessible via onboard webpages:
 - Basic event summary and pass/fail reports, such as EN 50160 for power
 - Frequency, supply voltage magnitude, supply voltage dips, short and long interruptions, temporary over voltages, voltage unbalance and harmonic voltage
 - ITIC (CBEMA) and SEMI curves, with alarm categorization to support further analyses
 - Basic meter provides EN 50160 but can be configured to provide IEEE 519
 - Harmonic analysis:
 - THD on voltage and current, per phase, min/max, custom alarming
 - Individual harmonic magnitudes and angles on voltage and current, up to the 63rd harmonic (up to 127th via EcoStruxure™ software).
 - High resolution waveform capture: triggered manually or by alarm, captured waveforms available directly from the meter via SFTP in COMTRADE format or can be viewed via onboard webpages
 - Disturbance detection and capture: sag/swell on any current and voltage channel, alarm on disturbance event, waveform capture with pre-event information
 - Patented Disturbance Direction Detection: provides indication of the captured disturbance occurring upstream or downstream of the meter; timestamped results provided in the event log, with degree of certainty of disturbance direction
- Used with EcoStruxure[™] Power Monitoring Expert software, provides detailed PQ reporting across entire network:
 - EN 50160 report
 - IEC 61000-4-30 report
 - PQ compliance summary
 - Display of waveforms and PQ data from all connected meters.
- Onboard data and event logging
- 512 MB of standard non-volatile memory
- No data gaps due to network outages or server downtime
- Min/Max log for standard values



PowerLogic™ remote display.



PowerLogicTM ION7400 meter with remote display.



PowerLogic™ ION7400 with RS-485 4-Wire module



PowerLogic™ ION7400 with Fiber-Ethernet Module

- Up to 64 user definable data logs, recording up to 16 parameters on a cycleby-cycle or other user definable interval
- Continuous logging or 'snapshot' triggered by setpoint and stopped after defined duration
- Trend energy, demand and other measured parameters
- Forecasting via web pages: average, minimum and maximum for the next four hours and next four days
- Time-of-use in conjunction with EcoStruxure[™] software
- Event log: alarm conditions, metering configuration changes, and power outages, timestamped to 1 millisecond
- Alarming and control.
 - 50+ definable alarms to log critical event data, trigger waveform recording, or perform control function
 - 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
 - In conjunction with EcoStruxure[™] Power Monitoring Expert, software alarms and alarm frequency are categorized and trended for easy evaluation of worsening/improving conditions
- Excellent quality: ISO 9001 and ISO 14000 certified manufacturing

Usability

- Easy installation and setup
 - Panel and DIN rail mounting options, remote display option
- Pluggable connectors
- Free setup application simplifies meter configuration
- Front panel
- Easy to read color graphic display
- Simple, intuitive menu navigation with multi-language (8) support
- Optical port
- 2 energy pulsing LEDs
- Alt/Norm screens.
- Flexible remote communications
- Multiple simultaneously operating communication ports and protocols allow interfacing with other automation systems; (e.g. waveforms, alarms, billing data, etc.) can be uploaded for viewing/analysis while other systems access real-time information
- Supports Modbus, ION, DNP3, IEC 61850, MV-90
- Dual port Ethernet: 10/100BASE-TX; daisy-chaining capability removes need for additional switches
- Fiber-Ethernet option module: Multi-mode 100Base-FX with SC duplex connector
- Create redundant network loop using Rapid Spanning Tree Protocol (RSTP) and managed Ethernet switches
- Customize TCP/IP port numbers enable/disable individual ports
- RS-485 2-wire connection, up to 115200 baud, Modbus RTU and ION protocols, DNP3 is also supported via RS-485.
- 4-Wire RS-485 option module: up to 115200 baud, Modbus RTU and ION protocols, DNP3 is also supported via RS-485.
- Ethernet to serial gateway with Modbus Master functionality, connecting to 31 downstream serial Modbus devices. Also supports Modbus Mastering over TCP/IP (Ethernet) network.
- Full function web server with factory and customizable pages to access realtime and PQ compliance data.
- Time synchronization via:
 - GPS clock (RS-485) or IRIG-B (digital input) to +/- 1 millisecond.

Also supports Network Time Protocol (NTP/SNTP) and time set function from EcoStruxure $^{\rm TM}$ software server.



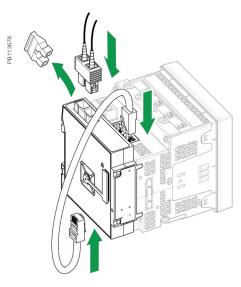
PowerLogic™ I/O module



4-Wire RS-485 Option Module



Fiber-Ethernet Option Module



PowerLogic™ ION7400 connection with Fiber-Ethernet

Adaptability

- ION™ frameworks are customizable, scalable applications with objectoriented programming that compartmentalizes functions, and increases flexibility and adaptability.
- Applications include: accessing and aggregating data from downstream Modbus devices over serial or across the network (Modbus TCP/IP), logging and/or processing data through totalization, unit conversion or other calculations, applying complex logic for alarming or control operations, and visualization via webpages.

Standard meter I/O

- 3 digital status/counter inputs.
- 1 KY (form A) energy pulse output for interfacing with other systems.

Advanced Metering Option Modules

- Expanding meter's flexibility with communication and I/O option modules
- Powered from meter base

I/O Expansion Option Modules

Option modules include:

- Digital module:
 - 6 digital status/counter inputs.
 - 2 Form C relay outputs, 250 V, 8 A.
- Analog module:
 - 4 analog inputs (4-20 mA; 0-20 mA; 0-30 V).
 - 2 analog outputs (4-20 mA; 0-20 mA; 0-10 V) for interfacing with building management sensors and systems.

Communication Option Modules

Option modules include:

- 4-Wire RS-485 Module (+1):
 - Adds 4-wire support to the meter i.e. eliminating the cost and efforts of rewiring while replacing/retrofitting legacy 4-Wire RS-485 systems
 - Pluggable screw terminal connector
- Fiber-Ethernet Module (+2):
 - Provides isolated data transmission through fiber optics up to 2000 m length
 - Supports multi-mode 100Base-FX type
 - SC duplex connector

Standards

- IEC 61000-4-30
- IEC 61000-4-7
- IEC 61000-4-15
- IEC 61326-1
- ANSI C12.20
- IEC 62052-11
- IEC 62053-22
- IEC 62053-23CLC/TR50579

Languages supported

- English, French, Spanish, Chinese, Italian, German, Russian, Portuguese
- $^{\mbox{\scriptsize (+1)}}$ Onboard 2-Wire RS-485 port is disabled with optional module
- (+2) Connected to the meter base using Ethernet patch cable (included with the module)

Maximum of 4 optional modules in total (Fiber-Ethernet, 4-Wires RS-485, I/O modules) can be connected to the meter. Only 1 Fiber-Ethernet and 1 4-Wire RS-485 option module is supported per meter.

Please refer to the option module Installation Guides for more details.

Feature guide

		ION7400 ESSENTIAL	ION7400 STANDARD	ION7400 ADVANCED
General				
Use on LV and MV systems		•	-	-
Current accuracy (5 A Nominal)		0.1 % reading	0.1 % reading	0.1 % reading
Voltage accuracy (90-690 V AC L-L, 50, 60, 400 Hz)		0.1 % reading	0.1 % reading	0.1 % reading
Active energy accuracy		0.2 Class	0.2 Class	0.2 Class
Reactive energy accuracy		2 %	2 %	2 %
Number of samples/cycle or sample frequency		256 (+3)	256	512
ION programability				•
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 A - 10 A	0.05 A - 10 A	0.05 A - 10 A
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				-
Synchronisation of the measurement window				•
Setting of calculation mode	Block, sliding			•
Power quality measurements				
Harmonic distortion	Current and voltage			
	Via front panel and web page	31	63	63
Individual harmonics	Via EcoStruxure™ software	-	127	127
Waveform capture		(+3)	•	-
Detection of voltage swells and sags				
Flicker		_		
Fast acquisition	1/2 cycle data			
IEC61000-4-30 Class A/S	.,, z sys.e data		S	A
		_	•	
EN 50160 compliance checking				
IEEE 519 compliance checking		-	-	•
Disturbance Direction Detection		-	_	-
Rapid Voltage Change		-	_	-
Customizable data outputs (using logic and math fu	nctions)		•	•
Data recording				
Min/max of instantaneous values		_	_	-
Data logs Event logs		_	_	-
		=	_	-
Trending/forecasting		-	•	•
SER (Sequence of event recording)			•	•
Time stamping			•	-
0.00				
GPS synchronisation (±1 ms)		10	50	
GPS synchronisation (±1 ms) Data Recorder Memory Channels		10 160	50 800	64

 $^{^{\}scriptscriptstyle{(+3)}}$ Waveform capture is limited to 128 Samples/cycle recording.

Feature guide (Contd.)

	ION7400 ESSENTIAL	ION7400 STANDARD	ION7400 ADVANCED
Display and I/O			
Front panel display 89 mm TFT		•	•
Wiring self-test	•	•	•
Pulse output	1	1	1
Digital or analog inputs (max)	27 digital 16 analog	27 digital 16 analog	27 digital 16 analog
Digital or analog outputs (max, including pulse output)	1 digital 8 relay 8 analog	1 digital 8 relay 8 analog	1 digital 8 relay 8 analog
Communication			
2-Wire RS-485 port	1	1	1
10/100BASE-TX	2	2	2
Serial port (Modbus, ION, DNP3, DLMS/COSEM)	•	•	•
Ethernet port (Modbus/TCP, ION TCP, DNP3 TCP, IEC 61850, DLMS/COSEM)		•	•
USB port (mini type B)		•	•
ANSI C12.19 Optical port		-	•
Option module with 4-Wire RS-485 port		•	
Option module with Fiber-Ethernet port	•	•	

Feature selection

Commercial reference number	ION7400 meters
ION74xxE	Essential Feature Set
ION74xx	Standard Feature Set
ION74xxA	Advanced Feature Set

Commercial references

Commercial refere			
Essential	Standard	Advanced	Description
METSEION7400E	METSEION7400	METSEION7400A	ION7400 Panel mount meter (integrated display with optical port and 2 energy pulse LEDs)
METSEION7410E	METSEION7410	METSEION7410A	ION7400 Panel mount meter (integrated display with optical port and 2 energy pulse LEDs) 20-60 V DC control power
METSEION7403E	METSEION7403	METSEION7403A	DIN rail mount - utility meter base
METSEION7404E	METSEION7404	METSEION7404A	DIN rail mount - utility meter base with remote display
METSEION7413E	METSEION7413	METSEION7413A	DIN rail mount - utility meter base 20-60 V DC control power
METSEION74001E	METSEION74001	METSEION74001A	MID approved panel mount meter (+4)
METSEION74003E	METSEION74003	-	RMICAN sealed panel mount meter (+5)
METSEION74004E	METSEION74004	-	RMICAN sealed panel mount meter (+5)
Accessories	Description		
METSEPM89RD96	Remote display, 3 met DIN96 cutout (92 x 92		are for 30 mm hole (nut & centering pin), mounting hardware for
METSEPM89M2600	Digital I/O module (6 d	digital inputs & 2 relay outp	outs)
METSEPM89M0024	Analog I/O module (4	analog inputs & 2 analog	outputs)
METSECAB10	Display Cable, 10 m		
METSEPMRS4854W	4-Wire RS 485 option	module	
METSEPMFIBER	Fiber-Ethernet option	module	
METSEPM8000SK	Sealing kit		

⁽⁺⁴⁾ For UK + EU only. (+5) For Canada only.

Technical Specifications

Electrical charac	teristics	ION7400	
Type of measurem	ent	True rms to 512 samples per cycle	
	Current & voltage	Class 0.2 as per IEC 61557-12	
	Active Power	Class 0.2 as per IEC 61557-12	
	Power factor	Class 0.5 as per IEC 61557-12	
Measurement accuracy	Frequency	Class 0.2 as per IEC 61557-12	
,	Active energy	Class 0.2S IEC 62053-22 (In=5A) Class 0.2 IEC 61557-12, ANSI C12.20 Class 0.2	
	Reactive Energy	Class 2 IEC 62053-23	
Data update rate		1/2 cycle or 1 second	
	Specified accuracy voltage	57 V L-N/100 V L-L to 400 V L-N/690 V L-L	
Input-voltage characteristics	Impedance	5 M Ω per phase	
	Specified accuracy frequency - Frequency	42 to 69 Hz (50/60 Hz nominal)	
	Limit range of operation - frequency	20 Hz to 450 Hz	
	Rated nominal current	1 A (0.2S), 5 A (0.2S) , 10 A (0.2 ANSI)	
Input-current	Specified accuracy current range	Starting Current: 5 mA Accurate Range: 50 mA - 10 A	
characteristics	Permissible overload	200 A rms for 0.5s, non-recurring	
	Impedance	0.0003Ω per phase	
	Burden	0.024 VA at 10 A	
	AC/DC	90-415 V AC ±10 % 16 VA at 230 V (50/60 Hz ±10%), 110-300 V DC ±10% 18 W (max)	
	LV DC	20-60 V DC, ±10 %,18 W (max)	
Power supply	Ride-through time	100 ms (6 cycles at 60 Hz) min., any condition 200 ms (12 cycles at 60 Hz) typ., 120 V AC, 110-415 V DC 500 ms (30 cycles at 60 Hz) typ., 415 V AC	
	Burden	Meter Only: 18 VA max at 415 V AC, 6W at 300 V DC Fully optioned meter: 36 VA max at 415 V AC, 17 W at 300 V DC.	
Input/outputs	Meter Base Only	3 form A digital inputs (30 V AC/60 V DC) 1 form A (KY) solid state digital output (30 V AC/60 V DC, 75 mA).	
	Optional	Digital - 6 form A digital inputs (30 V AC / 60 V DC) wetted + 2 form C relay outputs (250 V AC / 30 V DC, 8 A at 250 V AC or 5 A at 24 V DC)	
		Analog - 4 analog inputs (4-20 mA, 0-30 V DC) + 2 analog outputs (4-20 mA, 0-10 V DC).	
Mechanical char	racteristics		
Weight		Integrated Display Model 0.710 kg (without option modules) DIN rail mounted Model 0.530 kg (without remore display or option modules) IO modules 0.140 kg Remote display 0.300 kg	
IP degree of prote	ction	IP 54, UL type 12: Panel mount and Remote display, front. IP 30: Panel mount rear, DIN rail mount, I/O modules.	
	Panel mount model	98 x 112 x 78.5 mm	
	DIN model	90.5 x 90.5 x 90.8 mm	
Dimensions	Remote display	96 x 96 x 27 mm	
	IO modules	90.5 x 90.5 x 22 mm	
Environmental co			
Operating tempera		-25 °C to 70 °C	
Remote Display Ur		-25 °C to 60 °C	
Storage temperatu	ile	-40 °C to 85 °C	
Humidity rating		5 % to 95 % non-condensing	
Installation categor			
Operating altitude	(maximum)	3000 m above sea level	

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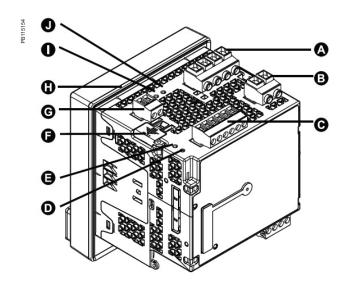
ION7400 series

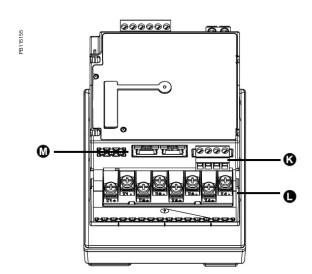
Technical Specifications (Contd.)

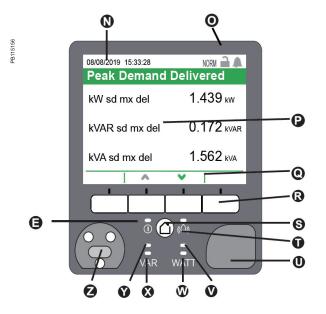
Electromagnetic competibility	
Electromagnetic compatibility	IFO 600F0 44 and IFO 64006 4
Product standards	IEC 62052-11 and IEC 61326-1
Immunity to electrostatic discharge	IEC 61000-4-2
Immunity to radiated fields Immunity to fast transients	IEC 61000-4-3
Immunity to surges	IEC 61000-4-5
	IEC 61000-4-5
Immunity to conducted disturbances	IEC 61000-4-8
Immunity to power frequency magnetic fields Immunity to conducted disturbances, 2-150kHz	
Immunity to conducted disturbances, 2-130kHz	IEC 61000-4-11
Immunity to voltage dips & interruptions Immunity to ring waves	IEC 61000-4-17
Conducted and radiated emissions	EN 55022, EN 55011, FCC part 15, ICES-003
Surge withstand Capability (SWC)	IEEE C37.90.1
	IEEE C37.90.1
Safety Construction	IEC/EN 61010-1 ed.3, CAT III, 400 V L-N / 690 V L-L UL 61010-1 ed.3 and CSA-C22.2 No. 61010-1 ed.3, CAT III, 347 V L-N / 600 V L-L IEC/EN 62052-11, protective class II
Communication	
Ethernet to serial line gateway	Communicates directly with up to 32 unit load ION client devices.
Web server	Customisable pages, new page creation capabilities, HTML/XML compatible.
Serial port RS 485	Baud rates of 2400 to 115200, pluggable screw terminal connector.
Ethernet port(s)	2 x 10/100BASE-TX, RJ45 connector (UTP).
USB port	Virtual serial port supports USB 3.0, 2.0, 1.1 using ION protocol.
	Modbus, ION, DNP3, IEC 61850, MV-90, DLMS/COSEM, HTTPS, SFTP, SNMP, SMTP, DPWS, RSTP, NTP, SNTP,
Protocol	GPS protocols.
Communication option modules	
Optional 4-Wire RS-485 serial port	Baud rates of 2400 to 115200, pluggable screw terminal connector.
Optional Fiber-Ethernet port	Ethernet patch cable from meter base, multi-mode 100Base-FX, SC duplex connector
Firmware characteristics	
Firmware characteristics High-speed data recording	Down to 1/2 cycle interval burst recording, stores detailed characteristics of disturbances or outages. Trigger recording by a user-defined setpoint, or from external equipment.
High-speed data recording	Trigger recording by a user-defined setpoint, or from external equipment. Up to 63rd harmonic (via EcoStruxure™ software) for all voltage and current inputs.
High-speed data recording Harmonic distortion	Trigger recording by a user-defined setpoint, or from external equipment. Up to 63rd harmonic (via EcoStruxure™ software) for all voltage and current inputs. Analyse severity/potential impact of sags and swells: magnitude and duration data suitable for plotting on
High-speed data recording Harmonic distortion Sag/swell detection	Trigger recording by a user-defined setpoint, or from external equipment. Up to 63rd harmonic (via EcoStruxure™ software) for all voltage and current inputs. Analyse severity/potential impact of sags and swells: magnitude and duration data suitable for plotting on voltage tolerance curves per phase triggers for waveform recording, control. Determine the location of a disturbance more quickly and accurately by determining the direction of the disturbance relative to the meter. Analysis results are captured in the event log, along with a timestamp
High-speed data recording Harmonic distortion Sag/swell detection Disturbance direction detection	Trigger recording by a user-defined setpoint, or from external equipment. Up to 63rd harmonic (via EcoStruxure™ software) for all voltage and current inputs. Analyse severity/potential impact of sags and swells: magnitude and duration data suitable for plotting on voltage tolerance curves per phase triggers for waveform recording, control. Determine the location of a disturbance more quickly and accurately by determining the direction of the disturbance relative to the meter. Analysis results are captured in the event log, along with a timestamp and confidence level indicating level of certainty. High accuracy of standard speed (1s) and high-speed (1/2 cycle) measurements, including true rms per phase and total for: voltage, current, active power (kW), reactive power (kvar), apparent power (kVA), power factor, frequency,
High-speed data recording Harmonic distortion Sag/swell detection Disturbance direction detection Instantaneous	Trigger recording by a user-defined setpoint, or from external equipment. Up to 63rd harmonic (via EcoStruxure™ software) for all voltage and current inputs. Analyse severity/potential impact of sags and swells: magnitude and duration data suitable for plotting on voltage tolerance curves per phase triggers for waveform recording, control. Determine the location of a disturbance more quickly and accurately by determining the direction of the disturbance relative to the meter. Analysis results are captured in the event log, along with a timestamp and confidence level indicating level of certainty. High accuracy of standard speed (1s) and high-speed (1/2 cycle) measurements, including true rms per phase and total for: voltage, current, active power (kW),reactive power (kvar), apparent power (kVA), power factor, frequency, voltage and current unbalance, phase reversal. Channel assignments (1024 channels via 64 data recorders) configurable for any measurable parameter, including historical trend recording of energy, demand, voltage, current, power quality, or any measured parameter. Trigger recorders based on time interval, calendar schedule, alarm/event condition, or
High-speed data recording Harmonic distortion Sag/swell detection Disturbance direction detection Instantaneous Load profiling	Trigger recording by a user-defined setpoint, or from external equipment. Up to 63rd harmonic (via EcoStruxure™ software) for all voltage and current inputs. Analyse severity/potential impact of sags and swells: magnitude and duration data suitable for plotting on voltage tolerance curves per phase triggers for waveform recording, control. Determine the location of a disturbance more quickly and accurately by determining the direction of the disturbance relative to the meter. Analysis results are captured in the event log, along with a timestamp and confidence level indicating level of certainty. High accuracy of standard speed (1s) and high-speed (1/2 cycle) measurements, including true rms per phase and total for: voltage, current, active power (kW),reactive power (kvar), apparent power (kVA), power factor, frequency, voltage and current unbalance, phase reversal. Channel assignments (1024 channels via 64 data recorders) configurable for any measurable parameter, including historical trend recording of energy, demand, voltage, current, power quality, or any measured parameter. Trigger recorders based on time interval, calendar schedule, alarm/event condition, or manually. Historical trends and future forecasts to better manage demand, circuit loading, and other parameters. Provides average, min, max and standard deviation every hour for last 24 hours, every day for last month,

All the communication ports may be used simultaneously.

ION7400 meter parts descriptions





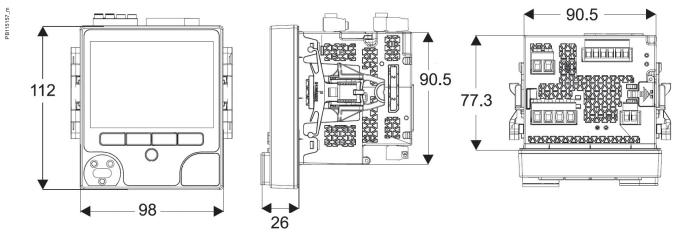


- A Voltage inputs
- **B** Control power
- C Digital inputs
- Revenue lock LED
- E Status LED (2 green/red)
- Revenue lock switch
- **G** Digital output
- Sealing gasket
- Infrared energy pulsing LED
- Energy pulsing LED
- **K** RS-485
- Current inputs
- M Ethernet (2)
- N Date/time
- O Indicator icons

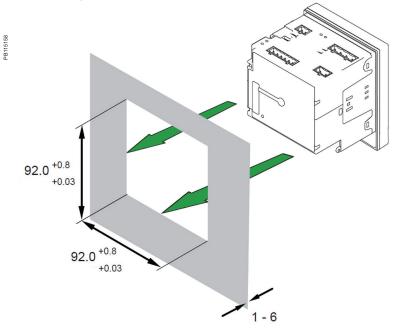
NORM/ALT Mode Revenue Alarm

- P Display
- Q Navigation icons
 - Select S Cancel S Edit More
- R Navigation buttons
- S Home button
- Alarm LED (red)
- USB ports cover
- Watt energy pulsing LED
- W Watt infrared energy pulsing LED
- X VAR infrared energy pulsing LED
- YAR energy pulsing LED
- Optical port

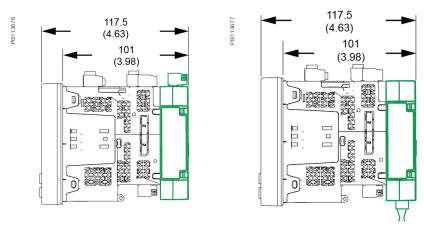
ION7400 meter dimensions



ION7400 panel cutout dimensions



ION7400 with communication option modules



For further details please see appropriate Schneider Electric Installation Guide for this product.



www.se.com

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As standards, specifications and designs develop from time to time, please ask for confirmation of the information given in this document.

Over 75 % of Schneider Electric products have been awarded the Green Premium ecolabel.

