METSEION7400
PowerLogic ION7400 Panel mount meter - display - optical port and 2 pulse

Green Premium™

Main

Range	PowerLogic
Product name	PowerLogic ION7400
Device short name	ION7400
Product or component type	Power meter

Complementary

Power quality analysis	Waveform capture Disturbance direction detection Harmonic distortion Programmablity (logic and math functions) Voltage sag and swell detection Up to the 63rd harmonic Compliance report EN 50160 Power quality monitoring IEC 62586 Power quality measurement IEC 61000-4-30 : class S Flicker IEC 61000-4-15
Device application	Revenue billing Power monitoring WAGES metering Data aggregation
Type of measurement	Power factor (total) Apparent power (total) Active and reactive energy Active and reactive power (total) Active and reactive power (per phase, rms) Apparent power (per phase, rms) Power factor (per phase, rms) Apparent energy Voltage Current Frequency
Supply voltage	90...415 V AC +/- 10 % (45...65 Hz) 110...415 V DC +/- 10 %
Network frequency	50 Hz 60 Hz

[In] rated current	5 A 1 A 10 A
Poles description	3P 1P + N 3P + N
Power consumption in VA	18 VA at 415 V AC
Display type	Colour TFT LCD
Display resolution	320 x 240 pixels QVGA
Sampling rate	256 samples/cycle
Measurement current	50...10000 mA
Analogue input type	Current (impedance 0.3 mOhm) Voltage (impedance 5 MOhm)
Measurement voltage	57...400 V AC 42...69 Hz between phase and neutral 100...690 V AC 42...69 Hz between phases
Frequency measurement range	42...69 Hz
Number of inputs	3 digital 30 V AC 3 digital 60 V DC
Measurement accuracy	+/- 0.2 % active energy +/- 0.1 % voltage +/- 0.1 % current
Accuracy class	Class 0.2 (active energy according to ANSI C12.20) Class 0.2S (active energy according to IEC 62053-22) Class 0.2 (active power according to IEC 61557-12) Class 0.5S (reactive energy according to IEC 62053-24) Class 0.5 (power factor according to IEC 61557-12) Class 0.2 (voltage according to IEC 61557-12) Class 0.2 (current according to IEC 61557-12) Class 0.2 (frequency according to IEC 61557-12) Class 0.2 (active energy according to IEC 61557-12)
Number of outputs	1 pulse
Information displayed	Voltage Current Frequency Power Energy consumption Harmonic distortion
Communication port protocol	DNP3 IEC 61850 DLMS Modbus RTU 2-wire, : 115 kbauds, ION 2-wire, : 115 kbauds, Modbus TCP/IP Ethernet Modbus TCP/IP daisy chain : 10/100 Mbit/s, RSTP 801.1d 2004 Ansi C12.19
Communication port support	Ethernet RS485 (screw terminal block) Fiber optic (optical probe) USB (mini B USB)
Communication network type	IPv6 (internet protocol)
Data recording	Min/max of instantaneous values Sag and swell logs Time stamping Trending/forecasting Harmonics logs Sequence of event recording Alarm logs GPS synchronisation Event logs Data logs Waveform logs
Memory capacity	512 MB
Web services	Alarm notification by e-mail HTTP server File upload/download via FTP Customizable home page

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	Web server
	Viewing of captured waveform
Communication service	NTP time synchronization
	SMTP e-mail notification
	RSTP support
	DHCP
Cybersecurity	Enable/disable communication ports
	Syslog protocol support
	Password protection
	Robust security logs
	Port hardening
Mounting mode	Flush-mounted
Mounting support	Framework
Type of installation	Indoor installation
Installation category	III
Safety Construction	IEC 61010-1 : CAT III, 400...690 V ed. 3
	EN 61010-1 : CAT III, 400...690 V ed. 3
	UL 61010-1 : CAT III, 347...600 V ed. 3
	CSA C22.2 No 61010-1 : CAT III, 347...600 V ed. 3
Standards	IEC 62053-22
	IEC 61557-12
	IEC 62052-11
	IEC 61326-1
	IEC 62053-24
Product certifications	N998
	China RoHS
	CULus
	CE
Width	98 mm
Depth	78.5 mm
Height	112 mm
Product weight	706 g

Environment

Electromagnetic compatibility	• electrical fast transient/burst immunity test, conforming to IEC 61000-4-4
	• conducted RF disturbances, conforming to IEC 61000-4-6
	• immunity to impulse waves, conforming to IEC 61000-4-12
	• radiated radio-frequency electromagnetic field immunity test, conforming to IEC 61000-4-3
	• voltage dips and interruptions immunity test, conforming to IEC 61000-4-11
	• electrostatic discharge, conforming to IEC 61000-4-2
	• surge immunity test, conforming to IEC 61000-4-5
	• magnetic field at power frequency, conforming to IEC 61000-4-8
	• conducted and radiated emissions, conforming to EN 55022
	• conducted and radiated emissions, conforming to EN 55011
	• conducted and radiated emissions, conforming to FCC Part 15
	• conducted and radiated emissions, conforming to ICES-003
	• conducted RF disturbances 2...150 Hz, conforming to CLC/TR 50579
	• surge withstand, conforming to IEEE C37.90.1
IP degree of protection	IP30 (body) conforming to IEC 60529
	IP54 (front) conforming to IEC 60529
Relative humidity	5...95 %
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	3000 m

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1553 - Schneider Electric declaration of conformity
	Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
	Reference not containing SVHC above the threshold
Product environmental profile	Available
	Product Environmental Profile

Product end of life instructions	Available
	End of Life Information

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