Product data sheet

Specifications

Power quality meter, PowerLogic ION7400, Essential, transducer, 64 MB, 128 s/c

METSEION7413E

Main

Range	PowerLogic
Product name	PowerLogic ION7400
Product or component type	Power meter
Device short name	ION7413
model type	Essential

Complementary

Power quality analysis	conforming to EN 50160: 2010 compliance report conforming to IEEE 519: 2014 compliance report up to the 63rd harmonic harmonic distortion waveform capture voltage sag and swell detection programmablity (logic and math functions) conforming to IEC 62586 power quality monitoring
Device application	Revenue billing WAGES metering Data aggregation Power monitoring
Type of measurement	Current total Voltage per phase, rms Frequency per phase, rms Active and reactive power total Apparent power total Power factor total Active and reactive power per phase, rms Apparent power per phase, rms Power factor per phase, rms Active and reactive energy Apparent energy total
supply voltage	20...60 V DC +/- 10 %
Network frequency	50 Hz 60 Hz
[In] rated current	10 A 1 A 5 A
Poles description	1P + N 3P 3P + N
Power consumption in W	17 W
Display type	Without display
Sampling rate	128 samples/cycle
Measurement current	50…10000 mA

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Analogue input type	Voltage (impedance 5 MOhm) Current (impedance 0.3 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	Current +/- 0.1 % Voltage +/- 0.1 % Active energy +/- 0.2 %
Accuracy class	Class 0.2S active energy conforming to IEC 62053-22 Class 0.2 active energy conforming to ANSI C12.20 Class 0.2 active power conforming to IEC 61557-12 Class 0.5S reactive energy conforming to IEC 62053-24 Class 0.5 power factor conforming to IEC 61557-12 Class 0.2 voltage conforming to IEC 61557-12 Class 0.2 current conforming to IEC 61557-12 Class 0.2 frequency conforming to IEC 61557-12 Class 0.2 active energy conforming to IEC 61557-12
Number of outputs	1 pulse
Information displayed	Voltage Current Frequency Power Energy consumption Harmonic distortion
Communication port protocol	Modbus RTU at 115 kbauds - 2-wire ION at 115 kbauds - 2-wire DNP3 IEC 61850 Modbus TCP/IP Ethernet Modbus TCP/IP daisy chain at 10/100 Mbit/s RSTP 801.1d 2004 DLMS
Communication port support	ETHERNET Screw terminal block: RS485 Mini B USB: USB
Communication network type	IPv6 (internet protocol)
Data recording	Sequence of event recording Trending/forecasting Harmonics logs Time stamping GPS synchronisation Waveform logs Min/max of instantaneous values Sag and swell logs Data logs Event logs Alarm logs 10 data recorders
Memory capacity	64 MB
Web services	Customizable home page File upload/download via FTP File upload/download via SFTP Web server Alarm notification by e-mail Viewing of captured waveform (FTP) Viewing of captured waveform (web) HTTPS server
Communication service	NTP time synchronization SMTP e-mail notification RSTP support DHCP SNMP PTP time synchronization

Cybersecurity	Enable/disable communication ports Robust security logs Port hardening Password protection Syslog protocol support
Mounting mode	Clip-on
Mounting support	DIN rail
Type of installation	Indoor installation
Installation category	III
Safety Construction	III400…690 V conforming to IEC 61010-1:ed. 3 III400…690 V conforming to EN 61010-1:ed. 3 III347…600 V conforming to UL 61010-1:ed. 3 III347…600 V conforming to CSA C22.2 No 61010-1:ed. 3
Standards	IEC 61326-1 IEC 62053-22 IEC 62053-24 IEC 62052-11 IEC 61557-12 IEEE 1588 IEC 62586
Product certifications	CE CULus N998
Width	90.5 mm
Depth	90.8 mm
Height	90.5 mm
Product weight	528 g

Environment

Electromagnetic compatibility	Electrostatic discharge conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 Surge immunity test conforming to IEC 61000-4-5 Conducted RF disturbances conforming to IEC 61000-4-6 Magnetic field at power frequency conforming to IEC 61000-4-8 Voltage dips and interruptions immunity test conforming to IEC 61000-4-11 Immunity to impulse waves conforming to IEC 61000-4-12 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 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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.0 cm
Package 1 Width	14.0 cm

Package 1 Length	18.5 cm
Package 1 Weight	854 g
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	7.386 kg

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained

How we assess product sustainability

Use Better

Materials and Substances

Packaging made with recycled cardboard	**No**
Packaging without single use plastic	**No**
EU RoHS Directive	**Compliant with Exemptions**
SCIP Number	**23a3df3b-8f68-444e-b6b0-c97b248da7da**
REACh Regulation	**REACh Declaration**
California proposition 65	**WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov**

Use Again

Repack and remanufacture

Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**