



Main

Range	PowerLogic
Device short name	ION7650
Product or component type	Energy and power quality meter

Complementary

Power quality analysis	<ul style="list-style-type: none"> Waveform capture Disturbance direction detection Compliance monitoring Dip and swell, transient Harmonic distortion Programmability (logic and math functions) Setpoint learning Voltage sag and swell detection Up to the 63rd harmonic
Device application	<ul style="list-style-type: none"> Instrument transformer correction Energy pulsing and totalisation Tariff metering Equipment monitoring and control Demand and power factor control Co-generation and IPP monitoring Load curtailment
Type of measurement	<ul style="list-style-type: none"> Apparent power total Apparent power per phase Active power total Active power per phase Reactive power total Reactive power per phase Voltage Current Frequency Power factor total Power factor per phase
Supply voltage	<ul style="list-style-type: none"> 85...240 V AC 47...63 Hz 110...300 V DC
Network frequency	60 Hz

[In] rated current	5 A
Type of network	3P 3P + N 1P + N
Power consumption in VA	20 VA <= 45 VA
Display resolution	320 x 240 pixels QVGA
Display type	Backlit LCD
Sampling rate	1024 samples/cycle
Measurement current	0...5 A
Input type	Current 0.005...20 A 0.002 Ohm
Measurement voltage	100...600 V AC phase to phase 57...347 V AC phase to neutral
Frequency measurement range	42...69 Hz
Number of inputs	8 digital 120 V DC
Measurement accuracy	0.2 % energy 0.1 % current 1...5 A 0.1 % voltage 57...288 V
Accuracy class	Class 0.2S energy conforming to IEC 62053-22
Number of outputs	3 relay 4 solid state
Communication port protocol	DNP3 ION Telnet IEC 61850 TCP/IP Modbus
Communication port support	RS232 SUB-D 9 RS485 Fiber optic ST Ethernet RJ45 Modem RJ11
Data recording	Time stamping Event logs Data logs GPS synchronisation Min/max of instantaneous values Sequence of event recording Trending/forecasting
Transmission rate	<= 19200 bauds 300...115200 bauds 300...57600 bauds 10/100 Mbit/s
Memory capacity	5 MB
Web services	Web server
Tamperproof of settings	Protected by access code

Environment

Electromagnetic compatibility	<ul style="list-style-type: none"> • susceptibility to electromagnetic fields, conforming to IEC 61000-4-3 • electrical fast transient/burst immunity test, conforming to IEC 61000-4-4 • 1.2/50 µs shock waves immunity test, conforming to IEC 61000-4-5 • electrostatic discharge, conforming to IEC 61000-4-2 • conducted and radiated emissions class B, conforming to CISPR 22
Mounting mode	Flush-mounted
Mounting support	Enclosure door
Type of installation	Indoor installation
Overvoltage category	III
IP degree of protection	IP30 back IEC 60529 IP50 front face IEC 60529
Relative humidity	5...95 %
Pollution degree	2

Ambient air temperature for operation	-20...70 °C
Ambient air temperature for storage	-40...85 °C
Operating altitude	0...2000 m
Standards	IEC 61010-1
Width	192 mm
Depth	174 mm
Height	192 mm
Product weight	1.9 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0801 - 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 end of life instructions	Available

Contractual warranty

Warranty period	18 months
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