



ION8650 meter 128MB, FT21 cable, 277VAC 50Hz, Fiber ST No I/O

M8650A7C0E5F1A0A

! End-of-service on: Jan 25, 2021

! Discontinued

Main	
Range	PowerLogic
Device Short Name	ION8650A
Product Or Component Type	Revenue and power quality meter
Complementary	
Power Quality Analysis	conforming to IEC 61000-4-15 flicker magnitude harmonic up to the 50th transient capture conforming to EN 50160: ed. 4 compliance report harmonic distortion voltage sag and swell detection waveform capture

Device Application Co-generation and IPP monitoring

Tariff metering Load curtailment Equipment monitoring and control Instrument transformer correction Demand and power factor control

Energy pulsing and totalisation

up to the 63rd harmonic

programmablity (logic and math functions)

conforming to IEC 61000-4-30: class A power quality measurement

Type Of Measurement Current Voltage Frequency

Apparent power total Power factor total Apparent power per phase Power factor per phase Active power total Active power per phase Reactive power total

Reactive power per phase

Supply Voltage	120277 V AC 4763 Hz
	120480 V AC 4763 Hz

Network Frequency	50 Hz
[In] Rated Current	5 A 1 A 2 A

Type Of Network 3P 3P + N 1P + N

Power Consumption In Va	24 VA
Maximum Power Consumption In	33 VA

Display Type FSTN transflective LCD

Form Designation	36S 2½-element 4 9 3-element 4 35 2-element 3
	29 2½-element 4
Sampling Rate	1024 samples/cycle
Measurement Current	0.00124 A
Input Type	Current 0.0120 A (impedance 0.05 Ohm)
Measurement Voltage	57277 V AC phase to neutral 100480 V AC phase to phase
Number Of Inputs	0
Measurement Accuracy	Current 0.1 % Voltage 0.1 % Power 0.1 % Power factor 0.1 % Frequency 0.001 Hz Energy 0.1 %
Accuracy Class	Class 0.2S energy conforming to IEC 62053-23 Class 0.2 energy conforming to ANSI C12.20 Class 0.2S energy conforming to IEC 62053-22
Number Of Outputs	2 pulse
Communication Port Protocol	DNP3 at 300115200 bauds ION at 300115200 bauds Ansi C12.18 at <= 19200 bauds IEC 61850 ed. 2 at 100 Mbit/s TCP/IP at 100 Mbit/s DLMS at 300115200 bauds Modbus at 57600 bauds DNP3 at 100 Mbit/s ION at 100 Mbit/s Modbus RTU, slave at 300115200 bauds Modbus TCP, slave at 100 Mbit/s EtherGate
Communication Port Support	ST: ETHERNET SUB-D 9: RS485/RS232 Terminal block: RS485 Infrared
Time Synchronisation Protocol	IRIG-B GPS: Truetime/Datum
Data Recording	GPS synchronisation Harmonics logs Revenue logs Time stamping Historical logs Event logs Alarms Sag and swell logs Transient logs Data logs
Transmission Rate	100 Mbit/s 300115200 bauds 57600 bauds <= 19200 bauds
Memory Capacity	128 MB
Web Services	Web server Robust security logs Port addressing user designed Alarm notification by e-mail
Ethernet Service	Enable/disable serial ports Enable/disable Ethernet protocols SNMP-Traps and SYSLOG
Tamperproof Of Settings	Protected by access code
Provided Equipment	Break out cable

Compatibility Code	ION8650A

Environment

-2 000-4-4 4-3 -5
-

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	26.0 cm
Package 1 Width	28.0 cm
Package 1 Length	44.0 cm
Package 1 Weight	4.5 kg