

# ION8650 meter 128MB, FT21 cable, 277VAC 60Hz, Eth. swb 1I+5O

M8650A7C0E6E0C0A

#### (!) 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	

<del>Complementally</del>	
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
	programmablity (logic and math functions)
	up to the 63rd harmonic
	conforming to IEC 61000-4-30: class A power quality measurement
	Comorning to IEO 01000-4-00. class A power quality measurement
Device Application	Tariff metering
	Equipment monitoring and control
	Energy pulsing and totalisation
	Demand and power factor control
	Co-generation and IPP monitoring
	Load curtailment
	Instrument transformer correction
	instantent danstonner conteston
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 total  Reactive power per phase
	. Redeal of perior perior perior
Supply Voltage	120277 V AC 4763 Hz
	120480 V AC 4763 Hz
Network Frequency	60 Hz
[In] Rated Current	2 A
[iii] Nated Guireit	5 A
	1A
	TA
Type Of Network	3P
	3P + N
	1P + N
Power Consumption In Va	24 VA
Maximum Power Consumption In Va	33 VA
Display Type	FSTN transflective LCD

Form Designation	36S 21/2-element 4
	9 3-element 4
	35 2-element 3 29 2½-element 4
	20 2/2 definent 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	1 digital 0.001100 mA 30 V DC
Measurement Accuracy	Current 0.1 %
	Voltage 0.1 %
	Power 0.1 %
	Power factor 0.1 %
	Frequency 0.001 Hz Energy 0.1 %
	Energy 6.1 70
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
	4 form C relay output
	1 form A triac output
Communication Port Protocol	DNP3 at 300115200 bauds
Communication For Frotocol	ION at 300115200 bauds
	Ansi C12.18 at <= 19200 bauds
	TCP/IP at 10 Mbit/s
	DLMS at 300115200 bauds
	Modbus at 57600 bauds
	DNP3 at 10 Mbit/s
	ION at 10 Mbit/s
	IEC 61850 ed. 2 at 10 Mbit/s
	Modbus RTU, master/slave at 300115200 bauds
	Modbus TCP, master/slave at 10 Mbit/s EtherGate
Communication Port Support	RJ45: ETHERNET
осинализации стобиррого	SUB-D 9: RS485/RS232
	Terminal block: RS485
	Infrared
Time Synchronisation Protocol	GPS: Truetime/Datum
Time dynamicalism related	IRIG-B
Data Recording	Transient logs
<b>.</b>	Sag and swell logs
	GPS synchronisation
	Historical logs
	Revenue logs
	Data logs
	Alarms
	Time stamping
	Harmonics logs Event logs
Transmission Rate	10 Mbit/s
	300115200 bauds
	<= 19200 bauds
Memory Capacity	128 MB
Web Services	Web server
	Alarm notification by e-mail
	Robust security logs
	Port addressing user designed
Ethernet Service	Enable/disable serial ports
Edicinet Gervice	SNMP-Traps and SYSLOG
	Enable/disable Ethernet protocols
Townson of Of Call	<u> </u>
Tamperproof Of Settings	Protected by access code

Provided Equipment	Break out cable
Compatibility Code	ION8650A

## **Environment**

Electromagnetic Compatibility	Electrostatic discharge immunity test conforming to IEC 61000-4-2 Conducted RF disturbances conforming to IEC 61000-4-6 Immunity to impulse waves conforming to IEC 61000-4-12 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 Susceptibility to electromagnetic fields conforming to IEC 61000-4-3 1.2/50 µs shock waves immunity test conforming to IEC 61000-4-5 Conducted and radiated emissions B conforming to CISPR 22
Mounting Mode	Flush-mounted
Enclosure Type	FT21 switchboard
Type Of Installation	Indoor installation
Overvoltage Category	III
Ip Degree Of Protection	IP50 front face: IP30 back:
Relative Humidity	595 %
Pollution Degree	2
Ambient Air Temperature For Operation	-4085 °C
Ambient Air Temperature For Storage	-4085 °C
Operating Altitude	03000 m
Standards	ANSI C12.1 IEC 62052-11
Width	163 mm
Depth	228 mm
Height	285 mm
Net Weight	7 kg

## **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

# **Contractual warranty**

Warranty 18 months