Sagemcom

MS212

Mono Phase Smart Energy Meter



MS212 Products presentation

- New Generation of Multi-Energies
- Modular Communication module:
 - G3-PLC RF Hybrid
 - Cellular 2G/4G & NBIoT
- Last Gasp
- DLMS Security Suite 0, 1 (ready for 2)
- Interoperability (DLMS/IDIS)
- Field Proven Datamodel

MECHANICAL CHARACTERISTICS		
Sealing method:		
Top cover and bottom cover are sealed together by ultrasonic welding. The terminal block cover is sealed by one dedicated screw and metallic ferrule.		
Connection diagram	BS or DIN	
Cable size	35 mm²	

SPECIFICATIONS			
Communication interfaces	interfaces	Optical port (IEC 62056-31) Pl DSMR 2 auxiliary relays	
	RF Hybrid G3-PLC	866-928 MHz G3-PLC Alliance Standard FCC/CEN-A	
	Cellular Modem	2G/4G-LTE Modem - NBIoT Modem internal antenna plus SMA connection possible	
Breakers	1 Internal load disconnector in Phase	• UC2 • Max metrological current: Imax = 60A • Max switching current: Imax = 90A	

SPECIFICATIONS			
	Voltage	120 - 240 V	
	Current	5(60)A	
	Max switching current per phase	90 A	
ures	Frequency	50 Hz or 60 Hz ± 5%	
Basic Features	Accuracy	MID / IEC Class 1 Active Energy IEC Class 2 Reactive Energy	
Bas	Comunication	Bidirectional	
	Quadrants	Q1/Q2/Q3/Q4, Import/Export Energy	
	Events Management	Tamper event detection, recording and reporting	
	Lifetime	15 years	
Environment	Operating temperature	-40°C/+70°C	
	Humidity	< 95%	
Ē	Protection Index	IP 54	
Customer Interaction	Display	LCD: Dot matrix 5 x 8 Digit Size: 7x3 mm Symbols: 48 (3 lines of 16) Scrolling: auto and manual Backlight: option, remotely configurable	
	LEDs	-1 for Active Energy -1 for Reactive Energy	
	Push Buttons	Main button for scrolling and breaker connection Sealable button for maintenance	
	Reading without power	Internal battery	

MAIN FUNCTIONALITIES		
Time of use	Programmable Load profiles: Capture list / capture COSEM objects / capture period	
	Programmable Billing profiles: Capture list / capture COSEM objects / capture period	
	Tariff management via built-in programmable output relay	
	Calendar / Time of Use management	
Power quality	Voltage Interruptions (Power down)	
	Voltage Restoration (Power Up)	
	Power Supply Quality	
	Neutral current measurement	
Security, integrity and verification	DLMS Security Suite 0,1 (ready for 2)	
	Auto diagnostic	
	Data Storage strategy for integrity	
	Local access to the meter by DLMS authentication Password (via the optical port)	
Firmware and load management	Load Disconnection: locally and remotely	
	Local and remote Firmware upgrade	

Note: this list of functionalities is not exhaustive. Deeper features list and Security detail can be delivered on special demand under Non-Disclosure Agreement (NDA).

FRAUD DETECTION
Strong Magnetic field Detection
Magnetic field immunity
Top Cover and Terminal block cover opening/closing detection
Input - output swap detection
Phase - Neutral swap detection
Mains power cut detection
Power factor variation detection
Neutral Disturbance

CERTIFICATION
CE and IEC Declaration
UC2 (breaker) EN 62055-31 & IS15884
DLMS SECURITY suite 0,1 (ready for suite 2)
MID Directive 2014/32/EU and the Radio Equipment Directive (RED) 2014/53/EU
DLMS CTT V3.0
LTE CAT NB2/NB1 (NB-IoT) / LTE CATM
G3 Alliance Certification
RED
Open to special Local/country Certification

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