Sagemcom

MT212

Tri Phase Smart Energy Meter



MT212 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:

Time of use

Power quality

Security, integrity and verification

Firmware and load management

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	DIN
Cable size	63 mm²

SPECIFICATIONS				
i ion	interfaces	 Optical port (IEC 62056-31) PI DSMR 2 auxiliary relays 		
Communication interfaces	RF Hybrid G3-PLC	• 866-928 MHz • G3-PLC Alliance Standard • FCC/CEN-A		
 Co	Cellular Modem	• 2G/4G-LTE Modem - NBIoT Modem • internal antenna plus SMA connection possible		
Breakers	3 Internal load disconnector in Phase:	• UC3 • Max metrological current: Imax = 100A • Max switching current: Imax = 120 A		

MAIN FUNCTIONALITIES
Programmable Load profiles:

Programmable Billing profiles

Power Supply Quality

Auto diagnostic

Neutral current measurement DLMS Security Suite 0, 1 (ready for 2)

Data Storage strategy for integrity

Password (via the optical port)

Local access to the meter by DLMS authentication

Load Disconnection: locally and remotely

Local and remote Firmware upgrade

Calendar / Time of Use management Voltage Interruptions (Power down) Voltage Restoration (Power Up)

Capture list / capture COSEM objects / capture period

Capture list / capture COSEM objects / capture period Tariff management via built-in programmable output relay

	SPECIFICATIONS					
	Voltage	3 x 120 V 3 x 230 V / 400 V				
	Current	5(100)A				
	Max switching current per phase	120 A				
	Frequency	50 Hz or 60 Hz ± 5%				
	Accuracy	MID / IEC Class 1 Active Energy IEC Class 2 Reactive Energy				
	Comunication	Bidirectional				
	Quadrants	Q1/Q2/Q3/Q4, Import/Export Energy				
	Events Management	Tamper event detection, recording and reporting				
	Lifetime	15 years				
	Operating temperature	-40°C/+70°C				
	Humidity	< 95%				
	Protection Index	IP 54				
	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				

	FRAUD DETECTION	
Strong Magnetic field De	tection	
Magnetic field immunity		
Top Cover and Terminal b	lock cover opening/closing d	etection
Input - output swap dete	ction	
Phase - Neutral swap det	ection	
Mains power cut detectio	n	
Power factor variation de	tection	
Neutral Disturbance		

CERTIFICATION
CE and IEC Declaration
UC3 (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

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).

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Basic Feat

Environment

Customer Interaction

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