Sagemcom

MS211

Single Phase Smart Energy Meter Static Whole Current 1P-2W



MS211 Products presentation

- Latest generation of modular Smart Meters
- Smart Pre-Paid, Post-Paid & Net Metering
- Cellular communication 2G/4G (LTE)
- Last Gasp & Neutral current measurement
- DLMS Protocol as per IS 15959 Part-2

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	IS 13779 SYMMETRICAL CONNECTION		
Mounting	IS 13779		
Cable size	4 - 25 mm ²		

SPECIFICATIONS				
Communication interfaces	Maintenance interface	Optical port (IEC 62056-31)		
	Wireless	Internal antenna		
S E :E	Cellular Modem	2G/4G-LTE Modem and available internal antenna connection		
Breakers	2 Internal load disconnector in Phase & Neutral (breakers)	UC2 Max current disc.: Imax = 60A Max switching current disc.: Imax = 80A		

	SPE	CIFICATIONS
	Voltage	230 V
	Current	10-60 A
	Accuracy	CI 1.0
LO.	Max switching current per phase	80 A
ture	Frequency	50 Hz ± 5%
Basic Features	Active Energy	IS 16444 (Part 1)
	Comunication	Bidirectionalw
	Quadrants	Q1/Q2/Q3/Q4, Import/Export Energy
	Configuration	Prepaid, Postpaid, Net Metering
	Events Management	Tamper event detection, recording and reporting
	Lifetime	10 years
Ħ	Operating temperature	-25°C/+60°C
Environment	Humidity	< 95%
viro	Protection Index	IP 54
ā	Fire protection	IS 11000 (Part 2/Set I)
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			
	Programmable Load profiles: Capture list / capture COSEM objects / capture period		
Time of use	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		
	DLMS Security: as per IS 15959 Part-2		
	Auto diagnostic		
Security, integrity and verification	Calibration mode		
and verification	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
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
Input - output swap detection Phase - Neutral swap detection Mains power cut detection Power factor variation detection

CERTIFICATION
BIS Licensed as per IS 16444 Part-1 & CEA-2016
UC2 (breaker) EN 62055-31 & IS15884
DLMS SECURITY suite 0, 1 (ready for suite 2) & IS 15959 Part-2
MID Directive 2014/32/EU and the Radio Equipment Directive (RED) 2014/53/EU
CE Declaration
DLMS CTT V3.0
LTE CAT NB2/NB1 (NB-IoT) / LTE CATM
RED
Open to special Local/country Certification

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