

Sagemcom

T211

Multi-Energy Electricity Smart Meter
Three-Phase DIN Standard 4 wires




SICONIA[®]
Elec

- 2 RS485 Ports
- eSIM MFF2 eUICC
- Last Gasp & Neutral current measurement

- DLMS Security suite 0 or 1 or 2
- Multi-energy : WMBUS 868 MHZ



SPECIFICATIONS		
Basic Features	Voltage:	3 *230V/400V
	Maximum current:	60A or 80A or 100A
	Max switching current per phase:	80A or 100A or 120A
	Frequency:	50 Hz +/- 3 Hz (6%)
	Active Energy:	EN50470-3 Class B
	Reactive Energy:	IEC 62053-23 Class 2
	Quadrants:	Q1 / Q2 / Q3 / Q4, Import / Export Energy
	Real Time Clock:	Supercap: 15 years / 15 day OR Battery 3 years
	Lifetime:	> 15 years
Environment	Operating temperature:	-40°C / + 70°C
	Humidity:	< 95%
	Protection Index:	IP 54
	Fire protection:	5-VB (UL94)
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

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:	DIN 43856
Mounting:	DIN 43857
Cable size:	4 – 35 mm ²
Terminal Screws	2 screws M6 (Pozidrive) or 1 screw M8 (Pozidrive)
Size (H*W*D)	263*180*90mm (incl. 40mm free space)

INTERFACES		
Integrated communication interfaces	Maintenance interface:	Optical port (IEC 62056-31)
	HAN customer interface:	P1 DSMR 5.0.2
	RS 485 Port :	2
Switches	2 Auxiliary Relays	Monotable 3A/230V

Technical features

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 & LTE MONITORING

- Voltage Interruptions (Power down)
- Voltage Restoration (Power Up)
- Power Supply Quality
- Last Gasp
- LTE Monitoring Profile

SECURITY, INTEGRITY AND VERIFICATION

- DLMS Security: suite 0,1 (ready for suite 2)
- Auto diagnostic
- Calibration mode
- 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

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

CERTIFICATION

- MID Directive 2014/32/EU and the Radio Equipment Directive (RED) 2014/53/EU
- CE Declaration
- DLMS CTT V3.0
- LTE CATM / LTE CAT NB2/NB1 (NB-IoT)
- RED
- UC3 (breaker) EN 62055-31
- DLMS SECURITY suite 0, 1 (ready for suite 2)
- Local/Country Certification on demand

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).

CORE ARCHITECTURE

High speed future proof Cortex™-M4 core microprocessor, integrating crypto/hash processor providing hardware acceleration for AES 128, 192, 256, Triple DES, and hash (MD5, SHA-1) and supporting BSI crypto standard.

All rights reserved. The information and specifications included are subject to change without prior notice. Sagemcom Energy & Telecom tries to ensure that all information in this document is correct, but does not accept liability for error or omission. Non contractual document. All trademarks are registered by their respective owners. Simplified joint stock company - Capital 25 605 811,80 Euros - 518 250 337 RCS Nanterre. 11/2021

Sagemcom Energy & Telecom SAS

Headquarters: 250, route de l'Empereur

92848 Rueil-Malmaison Cedex - FRANCE

Tel : +33 (0)1 57 61 10 00 - Fax : +33 (0)1 57 61 10 01

www.sagemcom.com

Sagemcom