

Sagemcom

XT211

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




SICONIA[®]
Elec

- Cellular communication
LTE Cat M / NB1 / NB2
- Automatic Switch Cat M / NB1 / NB2
- 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 DMSR 5.0.2 or RJ45/RS485 |
| | Cellular Modem: | LTE Cat M & NB2/NB1 (NB IoT) or LTE Cat-1 Band 3, 8, 20 Embedded Modem and internal antenna. SMA connector for external antenna |
| 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 or 1 or 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 or 1 or 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.

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