Sagemcom

XS212

Single Phase Smart Energy Meter
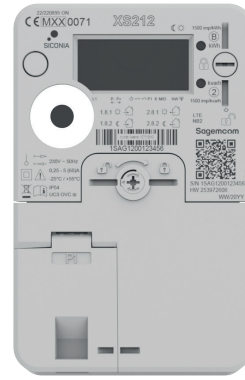

SICONIA®
Elec

- 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

NB-IoT

LTE-M

IDIS®

M-Bus wireless

SPECIFICATIONS

Basic Features		
	Voltage:	230V
	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 mm²
Terminal Screws	2 screws M6 (Pozidrive) or 1 screw M8 (Pozidrive)
Size (H*W*D)	205 x 130 x 82 mm (incl. 50mm free space)

INTERFACES

Integrated communication interfaces		
	Maintenance interface:	Optical port (IEC 62056-31)
	HAN customer interface:	P1 DSMR 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
Switchs	**1 Auxiliary Relay**	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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