

Sagemcom

XS211

Multi-Energy Electricity Smart Meter
Single-Phase DIN/BS Standard 2 wires



SICONIA[®]
Elec

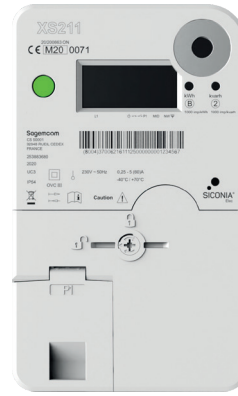
- New Generation of Multi-Energies (HAN)
- Cellular communication LTE Cat M/ NB1/NB2 (NB-IoT)
- End-Customer Home Area Network
- Last Gasp & Neutral current measurement
- DLMS Security suite 0 & 1 (2 ready)

SPECIFICATIONS		
Basic Features	Voltage:	230 V
	Current:	5(60-100) A
	Max switching current per phase:	60-100A
	Frequency:	50 Hz ± 6%
	Active Energy:	EN 50470-3 Class B
	Reactive Energy:	IEC 62053-23 Class 2
	Quadrants:	Q1 / Q2 / Q3 / Q4, Import / Export Energy
Environment	Lifetime:	20 years
	Operating temperature:	-40°C / +70°C
	Humidity:	< 95%
	Protection Index:	IP 54
Customer Interaction	Fire protection:	5-VB (UL94)
	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

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

INTERFACES		
Communication interfaces	Maintenance interface:	Optical port (IEC 62056-31)
	HAN customer interface:	P1 DSMR 5.0.2 or RS485
	Wireless M-Bus:	Internal antenna
	Cellular Modem:	LTE Cat M & NB2/NB1 (NB IoT) or LTE Cat-1 Modem and available internal antenna connection SMA connector for external antenna (option)
Breakers	1 Internal load disconnect (breakers):	UC3 Max current disc.: I _{max} = 60-100A Max switching current disc.: I _{max} = 80A
Relay	1 Auxiliary relay:	Monostable (2A) (option)

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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

- Voltage Interruptions (Power down)
- Voltage Restoration (Power Up)
- Power Supply Quality

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 CAT NB2/NB1 (NB-IoT) / LTE CATM
- RED
- UC3 (breaker) EN 62055-31
- DLMS SECURITY suite 0, 1 (ready for suite 2)
- 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).

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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