

Sagemcom



SICONIA® Self-Contained Watt-hour meter

Type S011DLW, S012DLW, S011_LW and S012_LW

SICONIA® Self-Contained Watthour meter Type S011DLW, S012DLW, S011_LW and S012_LW in conformance with ANSI C12.1[2022] and ANSI C12.10[2001(R2021)]

The new generation of Sagemcom ANSI smart meters will drive the transformation in energy management and grid-edge computing. High processing power and high-resolution waveform at 16 kspS enable real-time device identification, advanced analytics, and artificial intelligence (AI). Low latency communication via Wi-Fi makes it possible to manage electric vehicle chargers and distributed energy resources (DERs), while also providing consumers with greater awareness and insights to balance their demands according to their preferences.

SPECIFICATIONS	
Basic Features	Service Type: FM1S
	Rated Voltage: 120V - 480V
	Frequency: 60 Hz (+/-15%)
	Current Class: CL100 or CL200
	Operating System: Linux
	Real time clock: Less than 0,5s /day @ 23°C (5,78 ppm) Drift < 0,15s /°K /24h Time stamp maintained for 2 years, by battery
	Last Gasp: Power outage notification up to 90 seconds
	Accuracy for active energy: In conformance with ANSI C12.1 and ANSI C12.20 CA 0.2 (accuracy class 0.2%)
	Accuracy for reactive energy: In conformance with IEC 62053-24 Cl.1 (accuracy class 1%) Current range 0,75 - 15 (105) A (for CL100 meter) or 1,5 - 30 (210) A (for CL200 meter)
	Power Consumption: @ Nominal Voltage Less than 1.5W / 2.5VA (without communication) 4.5W / 6.0VA (max value)
Events Management:	Configurable event logbooks <ul style="list-style-type: none">Standard eventFraud detection eventPower Quality eventCommunication eventTechnical parameters change event
Environment	Operating temperature inside the meter: -40°C ... +85°C HR <95%, non-condensing
	Temperature sensor: Internal temperature survey Metrology compensation
Customer Interaction	Graphical LCD Display: Energy registers on 9 digits in kWh (more than 20 years without rollover) Voltage and current presence and direction Quadrant information Display scroll sequence programmable (factory or end user) Push Button in front face or Light sensor, which acts like a push button
	Home area network: Wi-Fi enabled supporting Matter protocol Grid Apps enabled In home Intelligence Apps enabled
Communication interface	Optical communication port: ANSI Type 2 Optical Port supporting 9600 or 19200 bauds Compliant to wireless Handheld Unit (HHU) Mechanical interface in conformance with ANSI C12.10
	Modular Wide Area Network Communication module: Supporting LTE Cat.M1, NB-IoT and RF mesh Wi-Sun Compliant to DLMS/COSEM North America GCP
Breaker	Latching Relay Remote disconnection and connection using a service switch integrated in the meter. 6,000 cycles @ 200A, 240 Vac 60 Hz (optional)

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Technical features

- TIME OF USE
 - Calendar with 12 season-profiles, 4 week-profiles and 24 day-profiles
 - 30 special days
 - 8 registers rates
 - Up to 36 Billing registers

POWER QUALITY

- In conformance with the IEC 61000-4-30 standard class A
- Integrated on 12 periods (200ms @60Hz)
- Harmonics up to rank 50
- Dip, swell and voltage interruption
- Voltage unbalance
- Rapid voltage change
- Voltage harmonics by rank and THD
- UTC time synchronization

CONFIGURABLE LOAD PROFILES

- 3 Load profiles concurrent storage
- 50 configurable data channels
- Capture period configurable between 1 and 60 min

GRID-EDGE COMPUTING

- Device Identification
- Power distribution monitoring

WAVEFORM

- Voltage and Current integrated over a period
- Data sampling: 16 kspS

Security

DATA ENCRYPTION

- AES standard
- Cryptographic functions
- Firmware update over the air (FOTA) with signature management

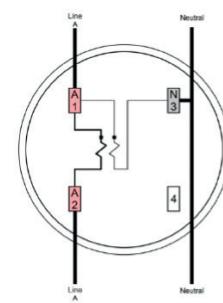
SAFETY

- In conformance with ANSI C12.1, UL2735c and UL2735
- Impulse voltage 6kV in conformance with IEC 61180-1
- Surge 4kV in conformance with IEC 61000-4-5

ANTI-TAMPER

- Super-Magnet detection
- Top Cover insertion/removal survey
- Motion detection
- Hot Socket detection

CONNECTION



Sagemcom Energy & Telecom USA LLC

1301 W President George Bush Hwy,
Richardson, TX 75080, United States
Tel : (+1) 972 896 6227

www.sagemcom.com

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