

Sagemcom




SICONIA®

SICONIA® Self-Contained Watthour meter

Type 12S-200

SICONIA® Self-Contained Watthour meter Type 12S-200 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 home 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:	FM12S
	Rated Voltage:	120Vac-240Vac (-50% / +20%)
	Frequency:	60 Hz (+/-15%)
	Current Class:	CL 200
	Operating System:	Linux
	Real time clock:	Less than 0,5s /day @ 73°F (5,78 ppm) Drift < 0,15s /°K /24h Time stamp maintained for 2 years, by battery
	Last Gasp:	Power outage notification up to 120 seconds
	Accuracy for active energy:	In conformance with 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 1,5 - 30 (210) A
	Power Consumption:	Voltage @240V Less than 1.5W / 2.5VA (without communication) 4.5W / 6.0VA (max value)
Environment	Events Management:	Configurable event logbooks <ul style="list-style-type: none">Standard eventFraud detection eventPower Quality eventCommunication eventTechnical parameters change event
	Operating temperature inside the meter:	-40...+185°F HR <95%, non-condensing
Customer Interaction	Temperature sensor:	Metrology compensation
	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) Light sensor which acts like a push button, to select the display screens, without opening the cover.
Communication interface	Home area network:	Wi-Fi enabled supporting Matter protocol Grid Apps enabled In home Intelligence Apps enabled
	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,

Technical features

TIME OF USE

- Calendar with 12 seasons profile, 12 weeks profiles and 30 days profiles
- 30 special days
- 6 registers rates
- Billing registers
- Critical Peak Pricing

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

- 2 Load profiles concurrent storage
- 20 configurable data channels
- 100,000 entries each
- Capture period configurable between 1-60 min
- Additional real time data profile 1-60 second data storage

GRID-EDGE COMPUTING

- Device Identification
- Power distribution monitoring

WAVEFORM

- Voltage and Current integrated on a period (16,67ms) curve
- Data sampling: 16 Ksps

Security

DATA ENCRYPTION

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

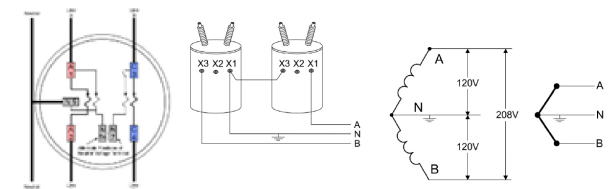
SAFETY

- 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



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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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