Sagemcom

S212-NG

New generation single-phase PLC Dual stack smart meter for residential application

Meters&More / PRIME 1.4



Sagemcom: The alliance of Energy and Telecoms is our based line

With over 1.5 million electronic smart meter delivered in EMEA every year, Sagemcom is an undisputed world leader in smart metering. It is the only manufacturer combining in its genes energy & telecoms know how, the only one able to deploy all standardized PLC technologies for all standards recognized by Open Meter, i.e. OFDM Prime, OFDM G3, Meters & More.

It's expertise of the communication chain upstream and downstream meters and its capacity of innovation (IPv6 integration mesh, radio, cellular) provides solutions to DSO new challenges, modernization programs and investment optimization targets (for water, gas and electricity). Its solutions, based on open standards coupled with more than 20 years of experience, ensure reliable solutions, ease of deployment, consumers data security and efficiency of multi energies systems



Moreover, by choosing Sagemcom you benefit from:

A technology field proven and approved worldwide.
A top of the range technical support.
The highest standards of quality.

Technical features

ELECTRICAL CHARACTERISTICS
- Power Supply: 127/ 230 ±15% / 50 Hz
- Current Range = 0.25 - 5(80) A
- Starting current = 20 mA
- Self-consumption: < 2W and < 10VA per phase

METROLOGY
- 4 quadrant measurements Active and Reactive energy
- Class B / 1 accuracy according to EN 50470-3, IEC 62052-11 and IEC 62052-21 for active energy
- Class 2 accuracy according to IEC 62052-11 & IEC 62053-23 for reactive energy
- Instantaneous measurement of U, I, P, F
- Average measurement of P, Q and power factor

TARIFF MANAGEMENT
- Real-time clock with lithium battery back-up
- Up to 6 tariffs

RECORDING
- Non-volatile memory
- Power failure detection
- Load profiles
- Programmable Independent integration period
- Automatic historical recording of consumption registers
- Historical values

CUSTOMER DISCONNECTION
- Disconnection through 2 internal relays (L+N)
- Compliant with UC2 i.e. IEC 62055-31 appendix

FRAUD DETECTION
- Magnetic field Detection
- Terminal and Top Covers open detection
- Downstream detection

CYBERSECURITY
- Meters and More: 128 bits AES encryption
- PRIME 1.4: DLMS Security Suite 0

PLC INTERFACE
- Meters and More
- PRIME 1.4
- Automatic repeat function
- Plug&Play Technology

DATA FORMAT
- Meters and More standard: layers CLC/TS 50568-x
- PRIME 1.4 standard: DLMS/COSEM and OBIS
- PRIME 1.3.6 standard: DLMS/COSEM and OBIS

LOCAL INTERFACES
- Optical port (for meter configuration and reading)

MECHANICAL FEATURES
- IP54 protection degree (EN 60529)
- Adjustable fixing Triangle DIN 43857
- Operating Temperature: -25°C to +70°C
- Humidity ≤ 95% at 40°C w/o condensing

FIRMWARE UPGRADE
- Applicative and Metrology firmware
- MID WELMEC guide 7.2
- Local or remote download through optical port or PLC

CERTIFICATIONS
- MID (active) and IEC (reactive)
- Real Decreto (MEÑE)
- EC Declaration
- Meters & More

DIMENSIONS
- With long terminal cover: 190 x 121,5 x 64,7 mm
- With short terminal cover: 156,7 x 121,5 x 64,7 mm

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