

MAGNO 11

Single Phase DIN-Rail
Smart Prepaid Meter
with LCD Display



Powering the Future with
Precision and Control

Magno 11 is a single-phase DIN-Rail prepaid meter with an LCD display, designed for power grid monitoring, load control, tamper detection, and vending. It features a **plug-and-play** module and advanced anti-tamper solutions to help utilities reduce losses and increase revenue. Compliant with **STS/CTS standards** and using the **DLMS/COSEM** open protocol, it ensures seamless integration with existing systems, making it ideal for residential electricity metering.



ELECTRICITY



STS ASSOCIATION

DLMS[®]



SMART READY

G3-Alliance



Main Functionalities

Standards & Compliance	<ul style="list-style-type: none">● IEC 31 ,21 ,11-62052● IEC ,23-62053● EN23-62053● EN3-50470
Measurement	<ul style="list-style-type: none">● Active and Reactive Energy● Import and Export Energy● Absolute and Algebra Active Energy
LCD Display	<ul style="list-style-type: none">● Large display with 10x5mm size and eight digits● OBIS code and functional icon, easy to read● Up to 8 digits number (0+1,8+2,7+6)● Wide viewing angle● Highlighting Backlight
Multi TOU Tariff	<ul style="list-style-type: none">● Up to 4 TOU tariffs● Up to 8 switch-time tables and 8 day-tables● Up to 12 week-tables and 12 season- tables● Up to 50 holiday-tables
Prepayment	<ul style="list-style-type: none">● STS, CTS and STS6● Prepaid and Post-paid switchover● Local and remote charge● LED and Buzzer for low credit alarm● Emergency credit and friendly mode
Load control	<ul style="list-style-type: none">● Multi control mode● Local and remote load control● Disconnection scheme can be configurable● Relay status indicator● Relay malfunction self-check
Load Profile	<ul style="list-style-type: none">● Up to 2 Megabytes of Non-volatile memory● Up to 3 channels profiles● Up to total 100 days records● Capture period and members can be configurable
Communication	<ul style="list-style-type: none">● Up to 4 independent communication ports● Optical Port for local communication● MC171 Port for the data recovery maintenance● Plug and play modem for remote communication:● GPRS/3G/4G/Ethernet/NB-IoT/PLC/RF/Lora...(Optional)● HAN modem for home area network communication wireless RF



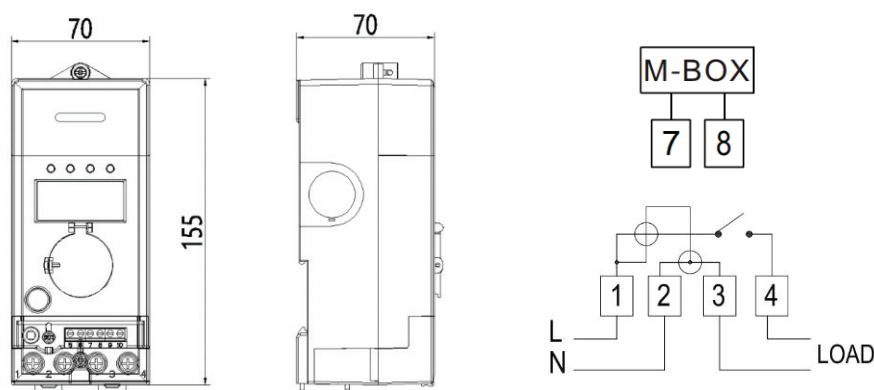
Additional Functionalities

Event	<ul style="list-style-type: none">● Up to 100 standard event records with occurred date and time: low battery, clock sync, clock malfunction, NV memory malfunction, watchdog reset, meter malfunction, MD reset, high temperature, firmware upgrade etc.● Up to 225 tamper event records with occurred date and time: meter cover open, terminal cover open, module cover open, strong magnetic interference, unauthorized login, parameter configuration etc.● Up to 100 control event records with occurred date and time: disconnect the breaker, connect the breaker, breaker control failure etc.● Up to 225 power grid event records with occurred date and time: power on, power off, under voltage, over voltage, over current, overload, current polarity reversal, current bypass, low power factor, neutral disturbance etc.● Up to 50 charge event records with occurred date and time: charging value, charging TOKEN etc.● Up to 50 management TOKEN event records with occurred date and time: Management TOKEN type, management TOKEN etc.
Anti Tamper	<ul style="list-style-type: none">● Up to 3 sealing positions● Terminal cover, meter cover and module cover sealing● Self-protection under Overload control, Abnormal voltage control, Arrearage control, Tamper control,
Alarm	<ul style="list-style-type: none">● Alarms with LED/Buzzer and LCD on CIU● Alarm can be configurable
Tariff Expense (Optional)	<ul style="list-style-type: none">● Up to 10 steps tariff● Up to 5 steps Monthly service charge● Up to 5 kinds subsidy● Up to 3 kinds fixed charge● Up to 5 kinds levies charge● Up to 3 kinds VAT charge
Communication Protocol	<ul style="list-style-type: none">● International open protocol● IEC21-62056 E mode DLMS● HDLC DLMS and TCP/IP DLMS● STS/CTS TOKEN and SMS
Billing Record	<ul style="list-style-type: none">● Up to 12-month billing data● Calculate monthly net consumption of energy● Up to 31 days daily data● Calculate daily net consumption of energy
Firmware Upgrade	<ul style="list-style-type: none">● Firmware upgrade● Fast and stable solution

Additional Functionalities

Rated Nominal Voltage	220V~240V
Operating Voltage Range	60 %Un~130 %Un
Rated Current & Starting Current	(100)5A,(80)5A, (60)5A and 0.4 %Ib
Rated Frequency	50Hz ±5 %
Pulse Constant (Configurable)	1000imp/kWh 1000imp/kvarh (Default)
Accuracy Class	Cl.1 for Active Cl.2 for Reactive
Power Consumption	Voltage circuit < 1W or 5VA, Current circuit < 0.2VA
Battery and Life	Replaceable Lithium battery, life more than 15 years
Normal Operation Range	-25 to +70 , Humidity is up to 95 %
Limit Operation Range	-40 to +70 Humidity is up to 95 %
EMC Performance	Impulse voltage > 8kV, AC voltage > 4kV, Short circuit current > 3kA, Electrostatic Discharge contact: 8kV & air: 15kV
Protection Class	IP54 comply with IEC60529 Insulation grade II15kV
Housing Material	Polycarbonate with non-conductive, high impact, smooth finish, durable, non-flammable, UV stabilized, UV resistant and high resistance to weathering

Diagram



EDMP

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