

# MAGNO 34

Three Phase Direct Current  
Smart Prepaid Meter



**Powering the Future with  
Precision and Control**

**Magno 34** is a versatile three-phase prepaid meter designed for comprehensive power grid monitoring, load control, tamper detection, and vending capabilities. It incorporates advanced anti-tamper features aimed at boosting utility revenues and reducing line losses.

This meter adheres to the STS/CTS standard and utilizes the DLMS/COSEM open protocol, ensuring compatibility and interoperability with various systems. It serves as an intelligent solution for both residential and commercial customers, offering robust performance and reliability.



**ELECTRICITY**



# Main Functionalities

Function	Description
Measurement	<ul style="list-style-type: none"><li>• Active and Reactive Energy</li><li>• Import and Export Energy</li><li>• Absolute and Algebra Active Energy</li></ul>
Multi TOU Tariff	<ul style="list-style-type: none"><li>• Up to 4 TOU tariffs</li><li>• Up to 10 switch-time tables and 8 day-tables</li><li>• Up to 12 week-tables and 12 season- tables</li><li>• Up to 50 holiday-tables</li></ul>
Max Demand	<ul style="list-style-type: none"><li>• Block and Slide demand mode</li><li>• Active/reactive maximum demand</li><li>• Record 13 months Maximum Demand (KW,KVAR)</li></ul>
LCD Display	<ul style="list-style-type: none"><li>• Large display with 10x5mm size and eight digits</li><li>• OBIS code and functional icon, easy to read</li><li>• Up to 8 digits number (6+2,7+1,8+0)</li><li>• Wide viewing angle</li><li>• Highlighting Backlight</li></ul>
Prepayment	<ul style="list-style-type: none"><li>• STS, CTS and STS6</li><li>• Prepaid and Post-paid switchover</li><li>• Local and remote charge</li><li>• LED and Buzzer for low credit alarm</li><li>• Emergency credit and friendly mode</li></ul>
Tariff Expense (Optional)	<ul style="list-style-type: none"><li>• Up to 10 steps tariff</li><li>• Up to 5 steps Monthly service charge</li><li>• Up to 5 kinds subsidy</li><li>• Up to 3 kinds fixed charge</li><li>• Up to 5 kinds levies charge</li><li>• Up to 3 kinds VAT charge</li></ul>
Load control	<ul style="list-style-type: none"><li>• Multi control mode</li><li>• Local and remote load control</li><li>• Disconnection scheme can be configurable</li><li>• Relay status indicator</li><li>• Relay malfunction self-check</li></ul>
Load Profile	<ul style="list-style-type: none"><li>• Up to 2 Megabytes of Non-volatile memory</li><li>• Up to 6 channels profiles</li><li>• Up to total 100 days records</li><li>• Capture period and members can be configurable</li></ul>
Communication Ports	<ul style="list-style-type: none"><li>• Up to 3 independent communication ports</li><li>• Optical Port for local communication</li><li>• Plug and play modem for remote communication: GPRS/3G/4G/Ethernet/NBIoT/ PLC/RF/Lora... (Optional)</li><li>• Wired MBUS for communicating with CIU</li></ul>

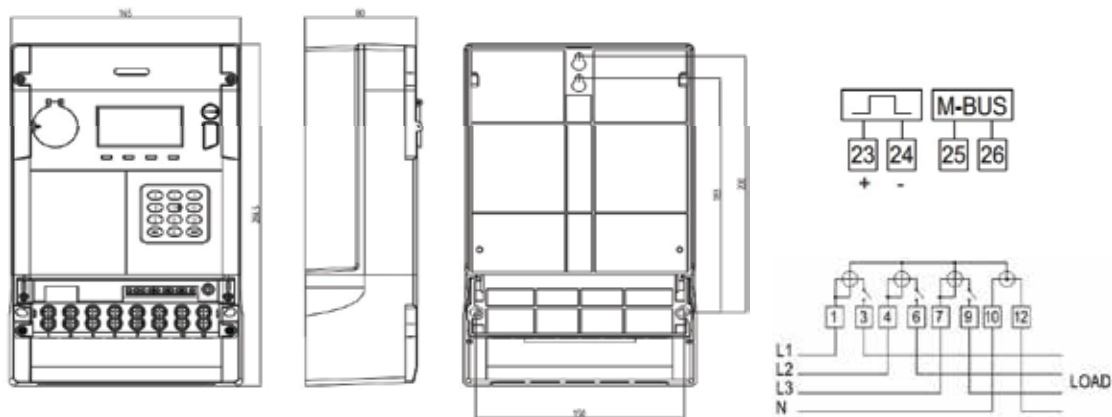
# Main Functionalities

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Event	<ul style="list-style-type: none"><li>• 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.</li><li>• 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.</li><li>• Up to 100 control event records with occurred date and time: disconnect the breaker, connect the breaker, breaker control failure etc.</li><li>• 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.</li><li>• Up to 50 charge event records with occurred date and time: charging value, charging TOKEN etc.</li><li>• Up to 50 management TOKEN event records with occurred date and time: Management TOKEN type, management TOKEN etc.</li></ul>
Anti Tamper	<ul style="list-style-type: none"><li>• Up to 8 sealing positions</li><li>• Terminal cover, meter cover and module cover sealing</li><li>• Sealable Optical Port</li><li>• Self-protection under Overload control, Abnormal voltage control, Arrearage control, Tamper control, Malfunction control, Fire disaster control etc.</li></ul>
Alarm	<ul style="list-style-type: none"><li>• Alarms with LED/Buzzer and LCD on CIU</li><li>• Alarm can be configurable</li></ul>
Communication Protocol	<ul style="list-style-type: none"><li>• International open protocol</li><li>• IEC62056-21 E mode DLMS</li><li>• HDLC DLMS and TCP/IP DLMS</li></ul>
Billing Record	<ul style="list-style-type: none"><li>• Up to 13-month billing data</li><li>• Calculate monthly net consumption of energy</li><li>• Up to 31 days daily data</li><li>• Calculate daily net consumption of energy</li></ul>
Firmware Upgrade	<ul style="list-style-type: none"><li>• Firmware upgrade</li><li>• Fast and stable solution</li></ul>
CIU/UIU unit	<ul style="list-style-type: none"><li>• Handy keypad</li><li>• LCD display with backlight</li><li>• Consumption rate indicator</li><li>• Wireless RF Communication</li><li>• Alarm with LED/LCD/Buzzer</li><li>• Easy to install</li></ul>

# Technical Specification

Description	Value
Rated Voltage	3x 220/380V~3x240/415V
Operating Voltage Range	60%Un~130%Un
Rated Current & Starting Current	5(100)A,5(80)A,5(60)A and 0.4%Ib
Rated frequency	50Hz
Pulse Constant	1000imp/KWH      1000imp/KVARH
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 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 > 8KV&15KV etc.
Protection Class	IP54 comply with IEC60529 Insulation grade II
Housing Material	Polycarbonate with non-conductive, high impact, smooth finish, durable, non-flammable, UV stabilized, UV resistant and high resistance to weathering
Dimension (H x W x L)	220mmX72mmX130mm

## Diagrams



EDMP

PO Box 125428, Plot No. MO0147C, Junction of N400 & N406 Streets,  
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