

MAGNO 34

ThreePhase CTVT
Connected SmartMeter



Powering the Future with
Precision and Control

Magno 34 is a sophisticated three-phase CT-VT operated meter designed for comprehensive functionalities such as powergrid monitoring , load controlling, tamper monitoring, vending, and transformer monitoring.

It incorporates an advanced anti-tamper solution that supports utilities in boosting revenues and reducing line losses. The meter utilizes **DLMS/COSEM** open protocol, making it an intelligent choice for transmission and distribution customers seeking robust energy management solutions.



ELECTRICITY



Main Functionalities

Function	Description
Measurement	<ul style="list-style-type: none">• Active and Reactive Energy• Import and Export Energy• Absolute and Algebra Active Energy
Multi TOU Tariff	<ul style="list-style-type: none">• Up to 4 TOU tariffs• Up to 10 switch-time tables and 8 day-tables• Up to 12 week-tables and 12 season- tables• Up to 50 holiday-tables
Max Demand	<ul style="list-style-type: none">• Block and Slide demand mode• Active/reactive maximum demand• Record 13 months Maximum Demand (KW,KVAR)
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 (6+2,7+1,8+0)• Wide viewing angle• Highlighting Backlight
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
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
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 6 channels profiles• Up to total 100 days records• Capture period and members can be configurable
Communication Ports	<ul style="list-style-type: none">• Up to 3 independent communication ports• Optical Port for local communication• Plug and play modem for remote communication: GPRS/3G/4G/Ethernet/NBIoT/ PLC/RF/Lora... (Optional)• Wired MBUS for communicating with CIU

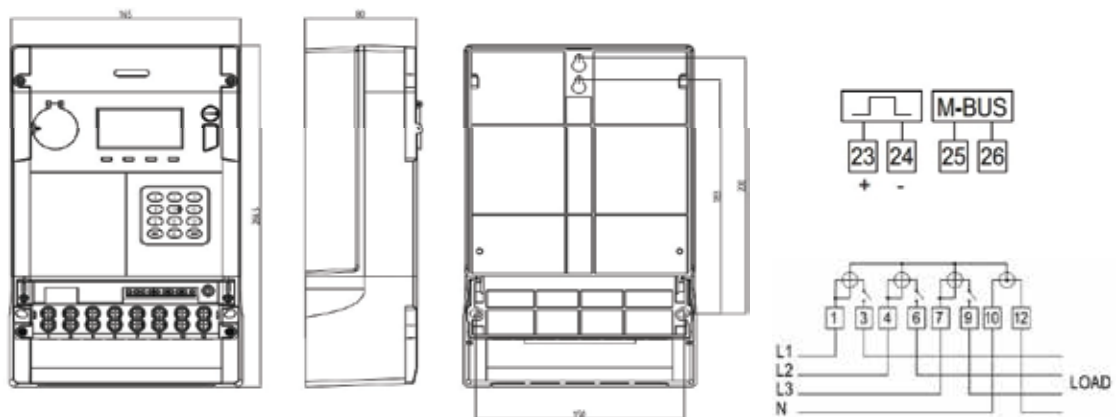
Main Functionalities

Function	Description
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 8 sealing positions• Terminal cover, meter cover and module cover sealing• Sealable Optical Port• Self-protection under Overload control, Abnormal voltage control, Arrearage control, Tamper control, Malfunction control, Fire disaster control etc.
Alarm	<ul style="list-style-type: none">• Alarms with LED/Buzzer and LCD on CIU• Alarm can be configurable
Communication Protocol	<ul style="list-style-type: none">• International open protocol• IEC62056-21 E mode DLMS• HDLC DLMS and TCP/IP DLMS
Billing Record	<ul style="list-style-type: none">• Up to 13-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
CIU/UIU unit	<ul style="list-style-type: none">• Handy keypad• LCD display with backlight• Consumption rate indicator• Wireless RF Communication• Alarm with LED/LCD/Buzzer• Easy to install

Technical Specification

Description	Value
Rated voltage	3x 240V/415V
Operating voltage range	60%Un~130%Un
Rated Current & Starting Current	3x1(10)A and 0.1%Ib
Rated frequency	50Hz
Pulse Constant	1000imp/KWH 1000imp/KVARH
Accuracy Class	Cl.0.5s for Active Cl.1 for Reactive
Power Consumption	Voltage circuit < 1W or 2VA, 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 > 4KA, 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)	266.5mmX80mmX165mm

Diagrams



EDMP

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