

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	• Active and Reactive Energy • Import and Export Energy • Absolute and Algebra Active Energy
Multi TOU Tariff	• 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	• Block and Slide demand mode • Active/reactive maximum demand • Record 13 months Maximum Demand (KW,KVAR)
LCD Display	• 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	• 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)	• 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	• Multi control mode • Local and remote load control • Disconnection scheme can be configurable • Relay status indicator • Relay malfunction self-check
Load Profile	• 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	• Up to 3 independent communication ports • Optical Port for local communication • Plug and play modem for remote communication: GPRS/3G/4G/Ethernet/NB IoT/ PLC/RF/Lora... (Optional) • Wired MBUS for communicating with CIU

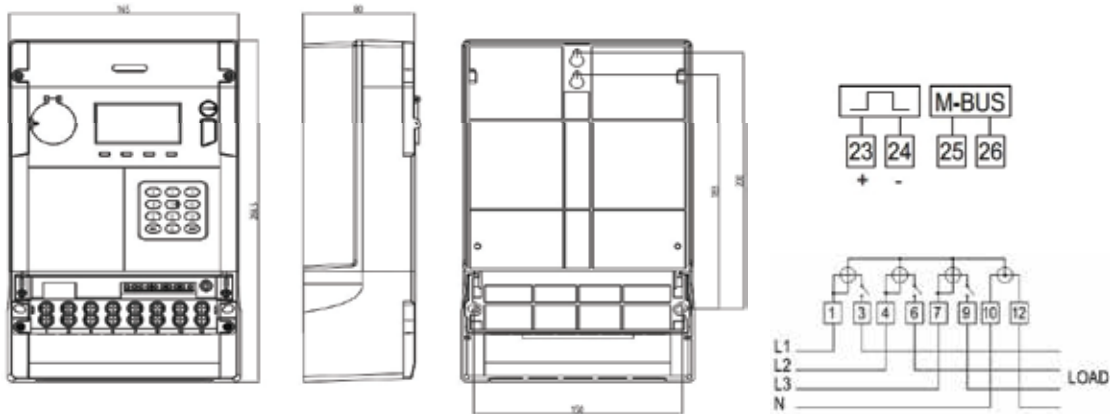
Main Functionalities

Function	Description
Event	- 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	- 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	- Alarms with LED/Buzzer and LCD on CIU - Alarm can be configurable
Communication Protocol	- International open protocol - IEC62056-21 E mode DLMS - HDLC DLMS and TCP/IP DLMS
Billing Record	- 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	- Firmware upgrade - Fast and stable solution
CIU/UIU unit	- 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



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