

MAGNO 33

For Residential and Commercial Use



Powering the Future with Precision and Control

The **Magno 33** is a directly connected **three-phase** smart meter designed for commercial and industrial energy management, supporting Advanced Metering Infrastructure (AMI) initiatives.

Equipped with advanced anti-tamper features, the Magno 33 helps utilities safeguard their revenues by detecting fraud and minimizing line losses. This high-performance meter is fully compliant with **STS/CTS standards** for prepaid metering and the **DLMS/COSEM protocol**, ensuring seamless compatibility with a wide range of systems.

With its reliable, robust performance, the **Magno 33** is the ideal solution for both residential and commercial customers, delivering exceptional accuracy, security, and efficiency in energy management.



ELECTRICITY



G3-Alliance

THREE PHASE DIRECT CURRENT
SMART ENERGY METER



Main Functionalities

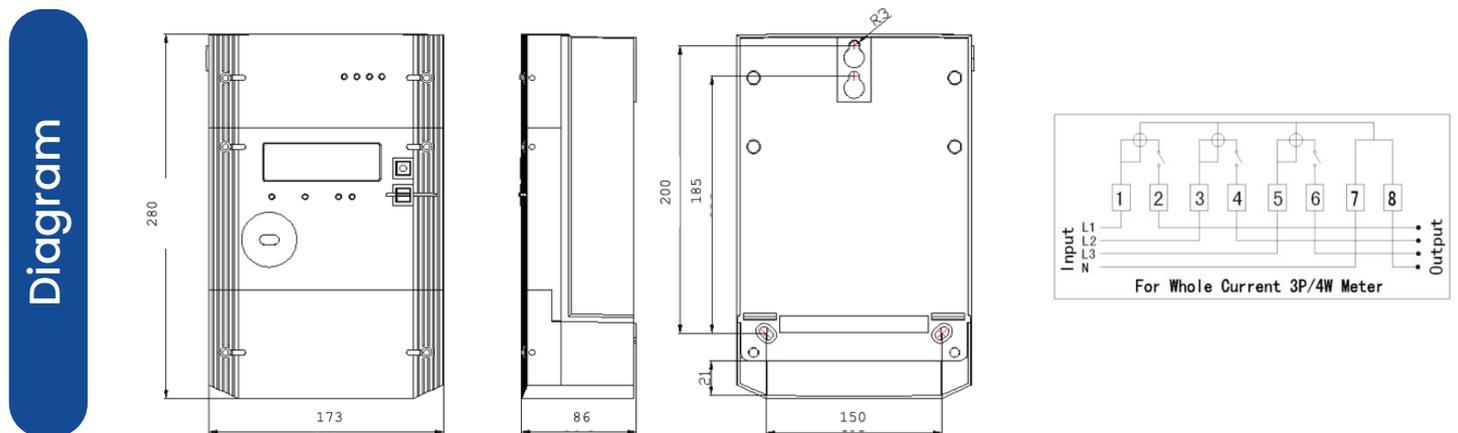
Standards & Compliance	<ul style="list-style-type: none">• IEC 31 ,21 ,11-62052• IEC 24 ,23-62053• IEC 1-31-62059• IEC 1-32-62059• EN23-62053• EN3-50470
Measurement	<ul style="list-style-type: none">• 3 elements 4 quadrants• Import/Export Absolute/Q1/Q2/Q3/Q4: Wh, varh and VAh• Power (per phase / total): W, var, VA• Vrms, Irms• Power factor, frequency• V-V and V-I phase angles• Voltage THD, Current THD• Harmonics up to 50th
Multi TOU Tariff	<ul style="list-style-type: none">• Up to 8 tariff• Up to 200 programmable special days Daily, Weekly, Monthly, Yearly & Special• Up to 32 separate import and export registers• Up to 12 seasons• Up to 100 Previous period plus Period totals
Prepayment	<ul style="list-style-type: none">• Configurable prepayment and post-payment mode• Three levels for remaining credit alarm• Emergency credit, friendly time and friendly days support• Dual wallet• Meter Keypad (Optional)
Load control	<ul style="list-style-type: none">• Remote control command support• Over current control support• Power limit support• 3 poles internal relay• Re-connect/Dis-connect by locally or remotely
Load Profile	<ul style="list-style-type: none">• At least 50 channels• Support 3 independent surveys• 24hrs daily survey• Intervals programmable from 1 to 60 minutes• Storage 8 channels (15 min) for a year
Communication Ports	<ul style="list-style-type: none">• WAN: Plug and play module to support various communication technology• WAN: G3-PLC, WiSUN, Cellular (GPRS, 3G, 4G/LTE, NB-IoT), or Ethernet• RF or PLC module – For communication with CIU (Customer Interface Unit)• Optical: Comply with IEC 62056-21 standard, DLMS(IEC 62056-21 mode E)• Additional: RS485 (2 wire), VTC interface
Input/Output Ports (Optional)	<ul style="list-style-type: none">• Pulse Output• Dual Source Signal (Tariff change)• Meter enclosure opening/tamper detection (Active input)• External Relay output

Additional Functionalities:

Event	<ul style="list-style-type: none">● Fraud detection log (Meter cover & terminal cover open detect with and without power, module cover open detect, current reverse, magnetic detect, neutral current mismatch etc.)● Failure detection log (Memory error, relay error, battery low voltage, clock invalid etc.)● Power quality event log (Under voltage / Over voltage(Sag/Swell) ,Over current/current imbalance, Power up/down, etc.)● Security event log (Parameters change, clock adjust, etc.)● Standard event log (Power up/on, time synchronization, etc.)
Anti Tamper	<ul style="list-style-type: none">● More than 4 sealing positions● Terminal cover, meter cover and module cover sealing● 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
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● IEC62056-21 E mode DLMS● HDLC DLMS and TCP/IP DLMS, Support suite 0 and suite 1● STS/CTS Token and SMS● LLS support 3 level passwords for local and remote communication● HLS support auth and encryption for local and remote communication
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">● The firmware can be upgraded via local interface and WAN interface.● Schedule activity image support
CIU unit	<ul style="list-style-type: none">● The meter can communicate with the CIU via RF or PLC● Parameters transfer● Credit token, Key change token, clear balance token, clear tamper token, set power limit token, test token etc.● Fully complies with STS standard

Technical Specification:

Rated Nominal Voltage	3x 208/120V~480/277V
Operating Voltage Range	80%Un~120%Un
Rated Current & Starting Current	(100)5A and 0.4 % Ib
Rated Frequency	50Hz or 60Hz ±5%
Pulse Constant (Configurable)	1000imp/kWh 1000imp/kvarh (Default)
Accuracy Class	Cl.1 for Active Cl.2 for Reactive
Power Consumption	Voltage circuit ≤2 W or 5VA, Current circuit ≤0.5 VA
Battery and Life	Replaceable Lithium battery, life more than 15 years Supercap (Optional) – 5 yr lifetime with power off
Normal Operation Range	-25°C to +60°C, Humidity is up to 95%
Limit Operation Range	-40°C to +70°C, Humidity is up to 95%
EMC Performance	Impulse voltage > 6KV, AC voltage > 4KV, Short circuit current > 3KA, Electrostatic Discharge contact: 8KV & air: 15KV
Protection Class	IP54 compliant with IEC 60529 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



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