



For Residential and Commercial Use

Three Phase Direct Current Smart Energy Meter



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.

DL MS®

DLMS Compliant

G3-PLC Alliance

G3PLC Compliant



STS Compliant



Interchangeable Communication



Main Functionalities: Standards & Compliance IEC 62052-11, 21, 31 EN62053-23 IEC 62053-23, 24 EN50470-3 IEC 62059-31-1 IEC 62059-32-1 Measurement 3 elements 4 quadrants Import/Export Absolute/Q1/Q2/Q3/Q4: Wh, varh and VAh Power (per phase / total): W, var, VA Vrms, lrms Power factor, frequency V-V and V-l phase angles Voltage THD, Current THD Harmonics up to 50th Multi TOU Tariff 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 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 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 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 WAN: Plug and play module to support various communication technology **Ports** WAN: G3-PLC, WiSUN, LoRaWAN, 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 Pulse Output (Optional) Dual Resource Signal (Tariff change) Meter enclosure opening/tamper detection (Active input)

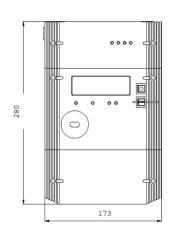
External Relay output

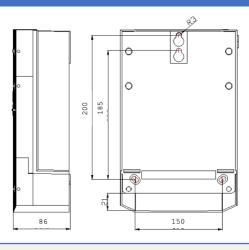
Additional Functionalities:

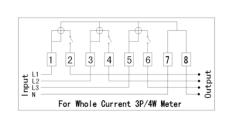
Event	 Fraud detection log (Meter cover & terminal cover open detect with and without power,
	module cover open detect, current reverse, magnetic detect, neutral current mismatch etc.)
	Failure detection log (Memory error, relay error, battery low voltage, clock invalid etc.)
	 Power quality event log (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	 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	 Alarms with LED/Buzzer and LCD on CIU
	Alarm can be configurable
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
Communication Protocol	 International open protocol
	IEC62056-21 E mode DLMS
	 HDLC DLMS and TCPIP 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	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	 The firmware can be upgraded via local interface and WAN interface.
	Schedule activity image support
CIU unit	 The meter can communicate with the CIU via RF or PLC
	 Para meters transfer
	 Credit token, Key change token, clear balance token, clear tamper token, set power limi
	token, test token etc.
	 Fully complies with STS standard

Technical Specification:		
Rated Nominal Voltage	3x 120/208V~277/480V	
Operating Voltage Range	80%Un~120%Un	
Rated Current & Starting Current	5(100)A and 0.4% lb	
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	

Diagram:







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