



For Residential and Commercial Use

Dual Source Three Phase Direct Current Smart Energy Meter



The Magno 33+ is a three-phase dual-source meter designed for residential and commercial use. It features integrated 100A UC3-compliant relays for remote disconnection and reconnection of electrical services. This meter allows measurement of power consumption from multiple sources with flexible payment modes, including dual-wallet functionality for prepayment systems. Compliant with STS/CTS standards and utilizing the DLMS/COSEM protocol, the Magno 33+ ensures seamless integration and reliable operation across diverse applications.



DLMS COMPLIANT





STS/CTS COMPLIANT





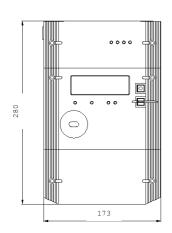
Main Functionalitie	es:	
Standards & Compliance	 IEC 62052-11, 21, 31 IEC 62053-23, 24 IEC 62059-31-1 IEC 62059-32-1 	EN62053-23EN50470-3
Measurement	 3 elements 4 quadrants Import/Export Absolute/Q1/Q2/Q3/Q4: Wh, varh and VAh Power (per phase / total): W, var, VA Vrms, Irms Power factor, frequency V-V and V-I phase angles Voltage THD, Current THD Harmonics up to 50th 	
Multi TOU Tariff	 Up to 8 tariff Up to 200 programmable specia Up to 32 separate import and ex Up to 12 seasons Up to 100 Previous period plus P 	
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 local 	
Load Profile	 At least 50 channels Support 3 independent surveys 24hrs daily survey Intervals programmable from 1 t Storage 8 channels (15 min) for a 	
Communication Ports	 WAN: Plug and play module to support various communication technology 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 62056-21standard, DLMS(IEC 62056-21 mode E) Additional: RS485 (2 wire), VTC interface 	
Input/Output Ports	 Pulse Output Dual Source Signal (Tariff change) Meter enclosure opening/tamper detection (Active input) External Relay output 	

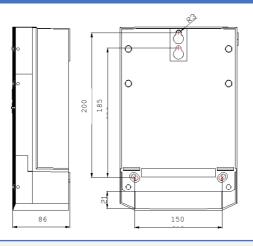
Additional Functionalities:

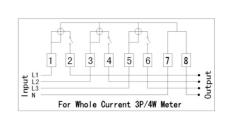
Event	 Fraud detection log (Meter cover & terminal cover open detect with and without power, module cover open detect, current reverse, magnetic detect, neutral current mismatch etc.) Failure detection log (Memory error, relay error, battery low voltage, clock invalid etc.) Power quality event log (Under 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 CIUAlarm 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 IDIS Compliant 	
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 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 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 \pm 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 Limit Operation Range	-25°C to +60°C, Humidity is up to 95% -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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