



Advance Single Phase Prepaid Energy Meter with Keypad



The Magno 21 is a energy meter built to combine efficiency, security, and ease of use for residential applications. Supporting DLMS/COSEM Protocol and featuring an intuitive keypad, it supports STS prepayment functionality, allowing consumers to conveniently enter credit tokens and manage their energy usage with full transparency and control.

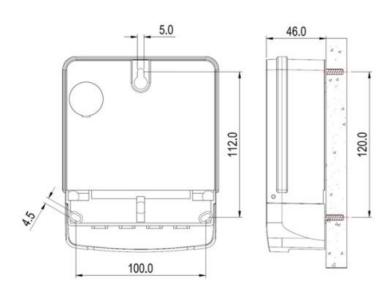
Engineered with security and resilience in mind, the Magno 21 ensures high-level data protection, a tamper-resistant ultrasonic welded enclosure, and optional built-in battery or supercapacitor backup for uninterrupted operation. With its keypad-based STS prepayment capability, the Magno 21 offers utilities a reliable solution for revenue assurance while providing end-users with simple and direct energy management.

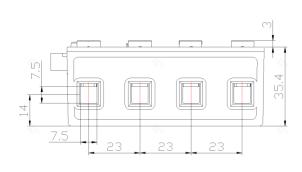


Main Functionalities:		
Standards & Compliance	 IEC 62052-11, IEC 62053-21 IEC 62058-11, IEC 62058-31 IEC 62053-52 IEC 62056-42, 46, 47, 61 	
Connection Type	1 Phase, 2 WireAsymmetric / Symmetric Connection	
Measurement	 kWh as principal unit of measurement Active and Reactive energy measurement Instantaneous Vrms, Irma, Frequency Time of Use, Load Profile, Maximum Demand, Event Logs, etc. 	
Load Profile	 Data recorded for 45 days (15min intervals) Data recorded: kW, kVAr, kWh, Voltage, Current 	
Demand	 Demand cycle configurable, the default is 15 minutes 	
Real Time Clock	 Clock accuracy (daily deviation): ≤ 0.5s/day 	
Prepayment	STS ProtocolKeypad Functionality	
Communication	Protocol: IEC62056-21 mode CRS485	
LCD	 Large digit LCD display for easy reading Display available during power off LCD Backlight Wide viewing angle 	
Relay	Disconnect Relay	
Security	 Communication is password protected 	
Protocol	 Open standard protocol: IEC62056-21 	
Event Records	 Bypass of mainline and load line, Record 25 events Current reverse, Record 25 events External magnetic tamper, Record 25 events 	
Memory	 Non-volatile memory which can support over 10 years 	
Battery	Support power off displaySupport RTC clock	
Terminals	 Two screws for fixing the terminal conductor The terminals are made of copper Connection cross-sectional area over 25mm2 	
Protection Class	IP54 compliant with IEC60529Insulation grade II	

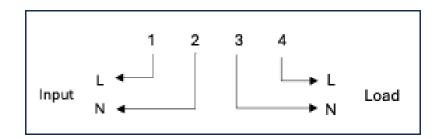
Technical Specification:	
Rated Nominal Voltage	■ 230V
Operating Voltage Range	• 0.8Un~1.3Un
	• 0.8011~ 1.3011
Rated Current & Starting Current	
	• 5(80)A
Rated Frequency	■ 50Hz ±2%
Pulse Constant (Configurable)	1000imp/kWh,
	 1000iimp/kvarh (Configurable)
Accuracy Class	Cl.1 for Active,
	 Cl.2 for Reactive
Power Consumption	 Voltage circuit ≤2 W or 10VA,
	 Current circuit≤1 VA @lb
Temperature Ranges	 Normal Operation Range: -40°C to +70°C, Humidity is up to 95%
	 Limit Operation Range: -40°C to +75°C Humidity is up to 95%
	 Limit range for Storage: -45°C to +75°C Humidity is up to 95%
EMC Performance	 Impulse voltage > 6kV, AC voltage > 4kV, Short circuit
	 Current > 3kA,
	 Electrostatic Discharge contact: 8kV & air: 10kV,
	 Electrostatic discharge immunity (IEC61000-2-2),
	 High frequency electromagnetic field immunity, (IEC61000-4-3),
	 Electric fast transient pulse group immunity (IEC61000-4-4)
	Surge immunity (IEC61000-4-5); 6kV
Design Life	■ ≥15 years
Dimensions	■ 126 x 110 x 46.6 mm
Weight	• 400g
Housing Material	 PC+10%GF material, Fire retardant, flame resistant, Anti-UV, thermal deformation engineering plastic, Transparent meter cover and terminal cover
	 Option for ultrasonic welding

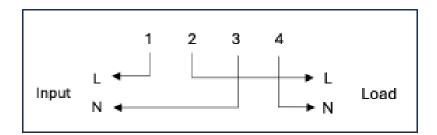
Dimensions:





Wiring Diagrams:





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