

MAGNO 21

Advance Single Phase
Standalone Energy Meter



Powering the Future with
Precision and Control

The **Magno 21** is a standalone energy meter designed to offer both efficiency and convenience for energy management. Its user-friendly interface and robust design make it ideal for residential users.

Built with a focus on security and durability, the **Magno 21** features high-level data protection, optional **built-in battery** or **supercapacitor** for power resilience, and ultrasonic welding for a tamper-resistant enclosure.



ELECTRICITY



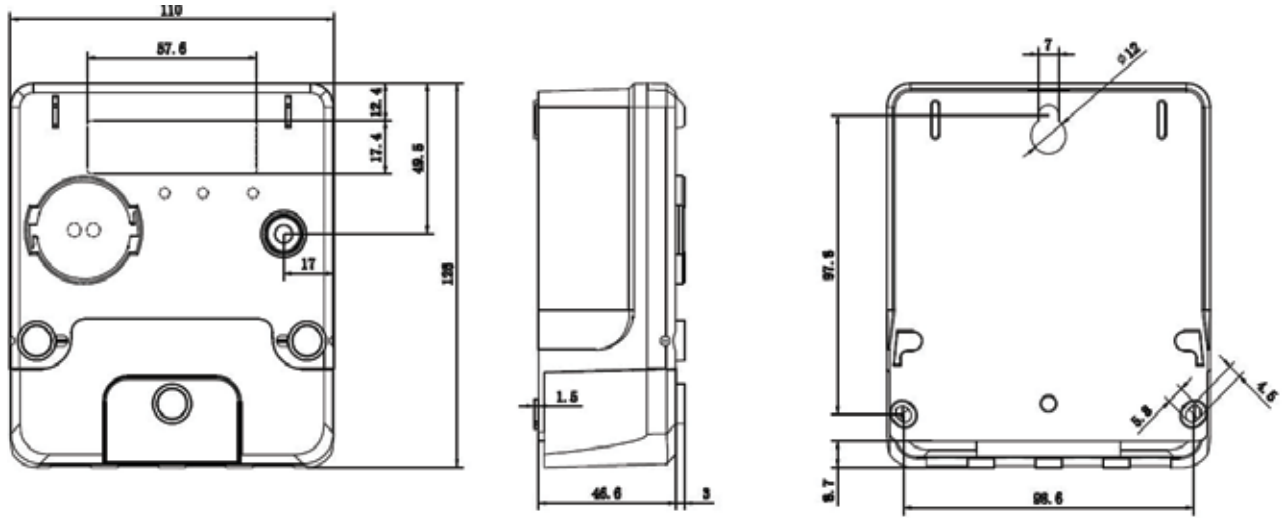
Main Functionalities

Standards & Compliance	<ul style="list-style-type: none">• IEC 62052-11• IEC 62053-21• IEC 62058-11• IEC 62058-31• IEC 62053-52
Connection Type	<ul style="list-style-type: none">• 1 Phase, 2 Wire• Asymmetric / Symmetric Connection
Measurement	<ul style="list-style-type: none">• kWh as principal unit of measurement• Active and Reactive energy measurement• Instantaneous Vrms, Irms, Frequency• Time of Use, Load Profile, Maximum Demand, Event Logs, etc.
Load Profile	<ul style="list-style-type: none">• Data recorded for 45 days (15min intervals)• Data recorded: kW, kVAr, kWh, Voltage, Current
Demand	<ul style="list-style-type: none">• Demand cycle configurable, the default is 15 minutes
Real Time Clock	<ul style="list-style-type: none">• Clock accuracy (daily deviation): $\leq 0.5s/day$
Communication	<ul style="list-style-type: none">• Protocol: IEC62056-21 mode C
LCD	<ul style="list-style-type: none">• Large digit LCD display for easy reading• Display available during power off• LCD Backlight• Wide viewing angle
Security	<ul style="list-style-type: none">• Communication is password protected
Protocol	<ul style="list-style-type: none">• Open standard protocol: IEC62056-21
Event Records	<ul style="list-style-type: none">• Bypass of mainline and load line, Record 25 events• Current reverse, Record 25 events• External magnetic tamper, Record 25 events
Memory	<ul style="list-style-type: none">• Non-volatile memory which can support over 10 years
Battery	<ul style="list-style-type: none">• Support power off display• Support RTC clock
Terminals	<ul style="list-style-type: none">• Two screws for fixing the terminal conductor• The terminals are made of copper• Connection cross-sectional area over 25mm²
Protection Class	<ul style="list-style-type: none">• IP54 compliant with IEC60529• Insulation grade II

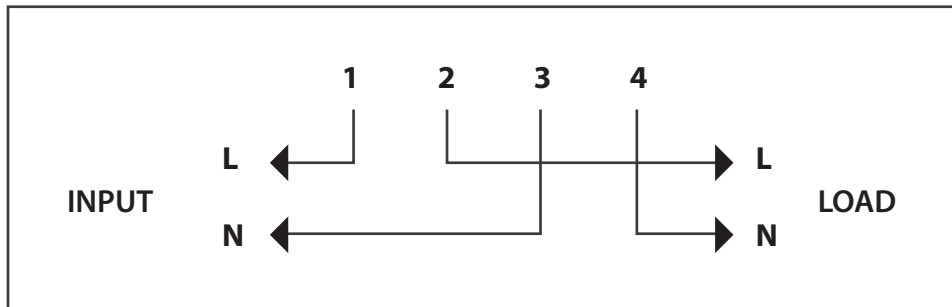
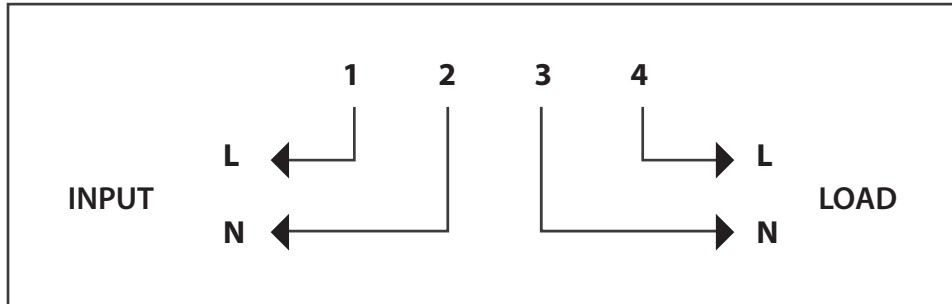
Technical Specification:

Rated Nominal Voltage	<ul style="list-style-type: none">• 120V
Operating Voltage Range	<ul style="list-style-type: none">• 80%Un~115% Un
Rated Current & Starting Current	<ul style="list-style-type: none">• 5(60)A,• 5(80)A,• 5(100)A• 0.4% Ib
Rated Frequency	<ul style="list-style-type: none">• 60Hz ±2%
Pulse Constant (Configurable)	<ul style="list-style-type: none">• 3200imp/kWh,• 3200imp/kvarh (Configurable)
Accuracy Class	<ul style="list-style-type: none">• Cl.1 for Active,• Cl.2 for Reactive
Power Consumption	<ul style="list-style-type: none">• Voltage circuit ≤2 W or 10VA,• Current circuit ≤4 VA @Ib
Power Consumption	<ul style="list-style-type: none">• Normal Operation Range: -25 to +55 , Humidity is up to 95%• Limit Operation Range: -25 to +60 Humidity is up to 95%• Limit range for Storage: -40 to +70 Humidity is up to 95%
EMC Performance	<ul style="list-style-type: none">• Impulse voltage > 6kV, AC voltage > 4kV, Short circuit• Current > 3kA,• Electrostatic Discharge contact: 8kV & air: 15kV,• 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	<ul style="list-style-type: none">• ≥10 years
Dimensions	<ul style="list-style-type: none">• 126 x 110 x 46.6 mm
Weight	<ul style="list-style-type: none">• 400g
Housing Material	<ul style="list-style-type: none">• 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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