



High-Accuracy ANSI Metering for Smart Grid Applications



The Magno 30 is a cutting-edge smart electricity meter designed on ANSI Standards for residential and industrial energy management, providing a flexible solution for AMI initiatives. It offers a comprehensive set of features, including power grid monitoring, load control, tamper detection, and vending functions, making it an ideal solution for residential and industrial applications. The Magno 30 enhances utility operations by providing real-time insights into energy usage, allowing for more effective energy management. It is equipped with advanced antitamper capabilities that protect against fraud and minimize line losses, which in turn boosts utility revenues and improves overall grid integrity. Fully compliant to DLMS/COSEM and ANSI C12.18, C12.19.











Main Functionalit	ties:
Measurement	 Import/Export Active Energy, Reactive Energy Q1/Q2/Q3/Q4 for Reactive Energy High accuracy per ANSI Class 0.2 / 0.5.
Instantaneous Value	 Real-time voltage, current, and power factor. Active, reactive, and apparent power monitoring. Detect abnormal load behavior.
Billing	 Total and tier registers for energy and demand. ANSI C12.19 billing tables supported. Remote, local, and scheduled billing.
Time of Use	 Up to 4 tariffs and 4 seasons programmable. Holiday, weekend, and weekday schedules supported. Daylight Saving Time adjustment available.
Load control	 Relay disconnect/reconnect for over/under-voltage and overload. Remote tamper-based disconnection. Supports reconnection via system command.
Load Profile	 Configurable intervals (5, 15, 30, 60 min). Stores energy and instrumentation profiles. Multiple channels supported with extended memory.
Self-Read	 Up to 40 blocks of stored self-read data. Scheduled, remote, or local initiation. Ensures data retention during outages.
Demand	 Block or rolling demand measurement. Programmable demand window intervals. Supports local, remote, and scheduled reset.
Communication	 According to ANSI C12.18, C12.19 Cellular: GPRS, 3G, 4G RF: Wi-SUN. Transparent DLMS/ANSI data exchange. Remote Communication with GridLynk HES system.
Ports	 Optical port (ANSI C12.18 Type 2). Sealed and software-blocked options. Optional eSIM Remote communication modules embedded
Protocol	 IPv4 and/or IPv6 DHCP TCP, UDP ANSI C12.21 / 12.22
Firmware Upgrade	 Over-the-Air (OTA) upgrades supported. Local upgrade with rollback option. Broken-download recovery and scheduling.

Additional Functionalities:

Event	Up to 300 items logs, with up to 80 different event types				
	Standard Event log,				
	Fraud Detection log,				
	 Disconnector Control log, 				
	Power Quality Event log,				
	 Communication log, 				
	Security event log				
Detection & Alarm	 Tamper detection and alarm Meter and Terminal cover detection alarm 				
	 Power quality, reverse current detection and alarm 				
Display	Configurable Auto Cycling Display (Obis Codes or Text)				
	 Energy and instantaneous power are displayed on LCD 				
	Three display modes:				
	 Normal: Display energy and instantaneous power 				
	 Test: Display data for testing purposes 				
	 Alternate: Display all measurement items 				

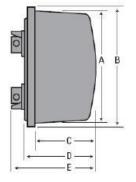
Tecl	nnical	Speci	ificatio	n:

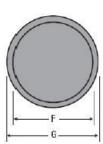
Rated Nominal Voltage	■ 120V~240V / 120V~480V
Operating Voltage Range	■ 80%Un~120% Un
Basic Current	2.5A, 15A, 30A
Maximum Current	up to 200A (without Relay), or 100A (with Relay)
Starting Current	10mA for Class 20
	50mA for Class 100
	100 mA for Class 200
Accuracy	 ANSI Class 0.2, 0.5 for active/reactive energy
Rated Frequency	■ 50Hz or 60Hz ±5%
Pulse Constant (Configurable)	Multiple Options: 3.6, 7.2, 14.4, 21.6 Wh/Pulse)
Power Consumption	 Voltage circuit ≤5 W, Apparent ≤20VA, Current circuit ≤1 VA
Lifetime	■ ≥ 10 years
Normal Operation Range	-25°C to +65°C, Humidity is up to 95%
Limit Operation Range	-40°C to +85°C Humidity is up to 95%
EMC Performance	 Electrostatic Discharge >8 kV contact, 15kV air
	Fast transient burst > 4kV
	 Surge Withstand 6-8kV
	 RF Immunity 10V/m at load, 30V/m without current.
Protection Class	 IP54 compliant with UL50-Type3

Meter Forms

Form	Voltage Range / Wiring Type	Meter Phase Type	Accuracy Class	Test Current (A)	Max Current (A)	Energy Constant (Kh)
18	120/240V, 2-wire, 1 element	SP	0.5	15/30	200	3.6
2\$	120/240V, 3-wire, 1 element	ent SP 0.5 15/30 200		7.2		
9 S	120-480V, 4-wire, 3 element	TP	0.2	2.5	20	1.8
128	120/240V, 3-wire, 2 element	s, 2 element SP 0.5 15/30 200		14.4		
16S	120-480V, 4-wire, 3 element	TP	0.2	15/30	200	21.6

Diagram:





А	В	С	D	E	F	G
6.29"	6.95"	3.93"	4.93"	5.93"	6.29"	6.95"
16cm	17.7cm	10cm	12.54cm	15.08cm	16cm	17.7cm

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