

## KWS-AC300 Keweisi AC Electricity Meter 0–100A – Accurate Power Monitoring Solution

The **KWS-AC300 Keweisi Electricity Meter (0–100A)** is a compact and reliable digital power monitoring device designed for accurate measurement of AC electrical parameters. It is widely used in electrical panels, industrial systems, workshops, laboratories, and energy monitoring applications where real-time electrical data is essential.

This meter provides clear and precise readings of voltage, current, power, energy consumption, frequency, and power factor, making it a practical tool for both professional electricians and technical users who require dependable electrical diagnostics and monitoring.

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### Comprehensive Electrical Parameter Measurement

The KWS-AC300 is designed to measure multiple AC parameters simultaneously, allowing users to analyze electrical system performance in real time. It supports:

- AC voltage measurement
- AC current measurement up to **100A**
- Active power (W)
- Energy consumption (kWh)
- Frequency (Hz)
- Power factor (PF)

This comprehensive functionality makes the meter suitable for monitoring electrical loads, identifying inefficiencies, and ensuring safe operation of electrical equipment.

For general information about electrical power measurement, refer to:

[https://en.wikipedia.org/wiki/Electric\\_power\\_measurement](https://en.wikipedia.org/wiki/Electric_power_measurement)

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### Wide Current Measurement Range (0–100A)

One of the key advantages of this meter is its **wide current measurement range**, supporting loads from low current up to 100 amperes. This makes it suitable for a variety of applications, from small appliances to higher-power electrical systems.

The meter uses an external current transformer (CT), allowing safe and non-intrusive current measurement without breaking the circuit. This improves installation safety and makes it suitable for enclosed electrical panels.

Learn more about current transformers here:

[https://en.wikipedia.org/wiki/Current\\_transformer](https://en.wikipedia.org/wiki/Current_transformer)

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### **Clear Digital Display for Real-Time Monitoring**

The KWS-AC300 features a **bright digital display** that clearly presents electrical parameters in real time. The screen layout is designed for easy readability, even in control panels or low-light environments.

Having instant access to voltage, current, and power values allows technicians to quickly diagnose issues such as overloads, voltage drops, or abnormal power consumption.

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### **Accurate & Stable Performance**

Designed for consistent and reliable operation, the meter provides **stable readings** with good measurement accuracy. This makes it suitable for continuous monitoring applications where data consistency is critical.

Accurate electrical measurement helps protect equipment, optimize power usage, and reduce the risk of electrical faults caused by overload or imbalance.

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### **Compact Design for Panel Mounting**

The compact form factor of the KWS-AC300 makes it easy to install in **distribution boards, control panels, and electrical enclosures**. Its panel-mount design ensures a clean and professional installation, suitable for both industrial and commercial environments.

The meter is commonly used in:

- Electrical distribution panels
- Industrial machines
- Power monitoring systems
- Workshops and labs
- Solar and inverter systems
- Home and commercial energy tracking

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## **Suitable for Energy Monitoring & Cost Control**

By displaying accumulated energy consumption (kWh), the meter helps users track power usage over time. This feature is especially useful for:

- Energy consumption analysis
- Load management
- Cost estimation
- Preventive maintenance

Monitoring energy usage is a key step in improving efficiency and reducing operational costs.

For more information on energy monitoring systems, see:

[https://en.wikipedia.org/wiki/Energy\\_monitoring](https://en.wikipedia.org/wiki/Energy_monitoring)

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## **Easy Installation & Practical Use**

The KWS-AC300 is designed for straightforward installation using standard wiring practices and an external current transformer. Once installed, it operates automatically without the need for complex configuration, making it suitable for both professionals and technically skilled users.

Its robust design supports continuous operation in electrical environments where reliability is essential.

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## **Ideal Applications**

This electricity meter is well-suited for a wide range of technical and industrial applications, including:

- Electrical load monitoring
- Power consumption tracking
- Equipment diagnostics
- Preventive maintenance
- Educational and training setups
- Renewable energy systems

Its versatility makes it a valuable addition to any electrical monitoring setup.

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## Why Choose the KWS-AC300 Keweisi Electricity Meter?

- Measures multiple AC electrical parameters
- Supports current measurement up to **100A**
- Uses external CT for safe monitoring
- Clear digital display for real-time data
- Compact panel-mount design
- Suitable for industrial, commercial, and technical use

The **KWS-AC300 Keweisi Electricity Meter 0–100A** is a practical and efficient solution for anyone who needs reliable insight into AC electrical system performance. Its balance of functionality, accuracy, and ease of installation makes it an excellent choice for power monitoring and energy management applications.