

KWS-303 AC Power Meter 85–290V / 40A – High-Precision Voltage, Current & Energy Monitor

The **KWS-303 AC Power Meter (85–290V / 40A)** is a compact, reliable, and highly accurate digital power monitoring solution designed for both professional and personal electrical measurement applications. Engineered to deliver real-time monitoring of **voltage, current, power, energy consumption, frequency, and power factor**, the KWS-303 is an essential tool for electricians, engineers, technicians, and energy-conscious users.

Whether you are managing **industrial equipment**, monitoring **home energy consumption**, or testing **AC appliances**, the KWS-303 AC Power Meter provides dependable performance with an easy-to-read LCD display and wide measurement range. Its durable design and straightforward installation make it suitable for a variety of environments including residential panels, workshops, laboratories, factories, and commercial buildings.

Accurate & Comprehensive Electrical Measurements

The KWS-303 supports a **wide voltage range of 85–290V AC**, making it compatible with most global single-phase AC power systems. With a **maximum current capacity of 40A**, it can safely monitor high-load devices such as air conditioners, heaters, motors, compressors, and industrial machinery.

This multifunction AC meter displays multiple electrical parameters simultaneously, including:

- **AC Voltage (V)**
- **AC Current (A)**
- **Active Power (W)**
- **Energy Consumption (kWh)**
- **Frequency (Hz)**
- **Power Factor (PF)**

The integrated energy monitoring function allows users to track power usage over time, helping identify inefficiencies, reduce energy costs, and optimize electrical performance.

User-Friendly LCD Display

The KWS-303 features a **bright, backlit LCD screen** that clearly presents all measured values at a glance. Even in low-light conditions, readings remain sharp and easy to interpret. The well-organized display layout eliminates guesswork, allowing quick diagnostics and efficient monitoring without additional tools.

Built for Safety & Reliability

Safety is a key design focus of the KWS-303 AC Power Meter. The device is constructed with **high-quality electronic components** to ensure stable performance, long operational life, and accurate readings. Its **robust ABS housing** offers excellent resistance to heat and impact, making it suitable for long-term installations.

The meter is designed for **panel mounting**, ensuring a secure and professional installation. Clear terminal labeling simplifies wiring and reduces installation errors, even for complex electrical systems.

Ideal Applications

The versatility of the KWS-303 makes it suitable for a wide range of applications:

- Home energy monitoring and power audits
- Industrial and commercial electrical systems
- Renewable energy systems (solar inverters, backup power)
- Laboratory testing and equipment evaluation
- Workshop machinery monitoring
- HVAC systems and heavy appliances

Whether you are troubleshooting electrical faults or managing energy efficiency, this power meter provides the data you need with precision.

Key Features of the KWS-303 AC Power Meter

- Wide voltage measurement range: **85–290V AC**
- High current capacity up to **40A**
- Real-time monitoring of voltage, current, power, energy, frequency, and power factor
- Clear **LCD digital display** with backlight
- Accurate and stable readings
- Energy consumption tracking in **kWh**
- Compact, space-saving panel-mount design
- Durable ABS housing for long-term use
- Easy installation with clearly marked terminals
- Suitable for residential, commercial, and industrial applications
- Reliable performance under continuous operation
- Ideal for energy saving and system diagnostics

Why Choose the KWS-303 Power Meter?

The **KWS-303 AC Power Meter** offers an excellent balance of **accuracy, durability, and affordability**. Unlike basic voltage or current meters, it provides a complete overview of electrical performance, helping users make informed decisions about power usage and system efficiency.

Its wide compatibility and professional-grade performance make it a trusted choice for both DIY users and experienced professionals.

Learn More About AC Power Measurement

To understand how AC power meters work and why they are essential in electrical systems, you can visit this external resource:

ⓘ https://en.wikipedia.org/wiki/Electric_power_measurement