

# Application note



Subject:  
**Powering Smart Factories  
 with Real-Time Energy Insights**

Industry:  
**Industrial Energy Monitoring**

Product:  
**EM600 series**

Customer:  
**OEMs, System integrators,  
 Installers**

## CUSTOMER ISSUE

Modern factories require connected, real-time energy analyzers to support both energy management and process optimization.

High refresh rates and robust communication capabilities are essential to enable:

- Machine-level visibility to quickly identify inefficiencies and energy waste
- Seamless integration with SCADA systems and PLCs for control and supervision
- Predictive maintenance strategies based on load profiles and runtime data

## OUR SOLUTION

The EM600 W provides highly accurate three-phase measurements with a fast 100 ms refresh rate, dual Ethernet ports, and an HTTPS REST API.

This enables immediate and secure data access across all automation layers, from field devices to supervisory systems.

For applications where cabling is difficult, EM600 is also available in a Wi-Fi version, enabling wireless connectivity without compromising data availability or integration capabilities.

## BENEFITS

- **Dual Ethernet ports** for daisy-chain connection, eliminating the need for external network switches
- **Wi-Fi connectivity** for flexible installation and reduced wiring costs
- **100 ms data refresh rate**, ideal for real-time monitoring and control logic applications
- **Seamless system integration** through standard industrial communication protocols and web-based APIs
- **Enhanced operational efficiency** through timely and actionable energy insights