

Press Release

EM600 W SERIES: FLEXIBLE MULTIPROTOCOL WI-FI ENERGY ANALYZERS

Smart, connected, and simple – wireless communication meets Carlo Gavazzi reliability.

Lainate, May 2026 - Carlo Gavazzi Automatio Automation, the international electronics group active in the design, manufacture, and marketing of electronic equipment, is proud to announce the launch of the **EM630 W** and **EM640 W**, the new **Wi-Fi-enabled versions** of the EM600 Series of three-phase energy analyzers.

Based on the proven EM600 B (Ethernet) range, the EM600 W adds secure **wireless connectivity** for fast and flexible integration into energy management systems. It supports both **Wi-Fi 1-to-1 (Access Point)** mode for direct configuration via the embedded webserver and **Wi-Fi LAN** operation for seamless existing network integration, providing a simple and reliable alternative or complement to Ethernet communication.

“With the launch of the EM600 W, we extend our connected energy-metering platform by combining flexibility, ease of integration, and cybersecurity,” says Andrea Bernardi, International Product Manager. “The addition of Wi-Fi and multiprotocol capability makes it ideal for industrial, building, renewable, and submetering applications.”

The EM600 W is a highly **versatile multiprotocol platform**, enabling **Ethernet and/or Wi-Fi** communication alongside **Modbus RTU or M-Bus** via plug-in modules (O1, S1, M1). This ensures maximum flexibility for both new installations and retrofit projects. **MID-certified for fiscal and sub-billing** applications, this analyzer guarantees accuracy and compliance with national regulations. It supports **Modbus TCP/IP, HTTPS REST API**, and features an **integrated webserver** for configuration and data monitoring.

An **onboard datalogger, real-time clock, and NTP synchronization** enable detailed energy analysis with hourly, daily, and monthly comparisons. Designed with advanced cybersecurity standards, the EM600 W ensures **secure data communication and is RED DA certified and CRA-ready** for long-term system integrity.

All features are housed in a **compact, self-powered 4-DIN module**, delivering the same high performance as the EM600 B, including **fast refresh rates and SUNSPEC compliance**.

Developed in Carlo Gavazzi’s Italian competence center, the EM600 W expands the company’s connected energy platform, combining **wireless simplicity, multiprotocol flexibility, and certified accuracy** for modern energy management applications.

Main technical features

- Wi-Fi Access Point and Wi-Fi LAN operation
- Dual communication: Wi-Fi only, or Wi-Fi + Ethernet for maximum flexibility
- Protocols: Modbus TCP/IP, HTTPS REST API, integrated webserver
- Modbus RTU or M-Bus via plug-in sliding modules:
 - S1: Digital input and Modbus RTU
 - M1: Digital input and M-Bus
 - O1: Digital input and output
- Energy datalogger with multi-period analysis
- Real-time clock with NTP synchronization
- Self-powered up to 480 V LL
- Accuracy: Class 0.5S (EM630), Class 1 (EM640)
- Compact 4-DIN housing with LCD display
- Quick setup via webserver, software, and mobile app
- SUNSPEC compliant
- MID certified for fiscal applications
- Advanced cybersecurity (RED DA certified, CRA-ready)
- cULus approved (ANSI pending)

ABOUT CARLO GAVAZZI AUTOMATION

Carlo Gavazzi is an international group engaged in the design, manufacturing, and marketing of electronic control components for the global building and industrial automation markets.

Carlo Gavazzi Automation provides customers with technologically innovative, high quality and competitive solutions, in compliance with their requirements and expectations through its 23 National Sales Companies in Europe, the Americas and Asia & Pacific, operating with its factories in Italy, Mexico, Lithuania, Malta, and China.

For further information:

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