

Press Release

EM24 W1: THE ENERGY ANALYZER WITH WIRELESS M-BUS COMMUNICATION

The solution to easily and cost-effectively retrofit existing buildings with M-Bus network when cabling is not possible.

Lainate, December 2019 - Carlo Gavazzi Automation, the international electronics group with activities in the design, manufacture and marketing of electronic equipment, today presents its new wireless energy analyzer for three-phase systems.

In several countries, it is common to have the residential energy services, as well as water and gas supplies, monitored and managed by specialised companies who often provide the billing service. These companies exploit the M-Bus communication protocol to gather the relevant data. In new buildings it is possible to implement an M-Bus network, but the most compelling need today is to retrofit existing buildings without installing a wired bus, which is a very complex and expensive operation in an existing and occupied building.

The EM24 is a three-phase energy analyzer for DIN-rail mounting with a configuration joystick, a frontal selector and an LCD display for time saving set-up and error-proof installation. High flexibility is ensured by means of the direct connection up to 65 A or the connection of 5 A current transformers. In its new W1 version, the EM24 is the first meter of its category (MID submeter for DIN-rail mounting) in the market with an embedded internal antenna for wireless M-bus communication. Optionally it is supplied with an external antenna (e.g., for mounting in metallic cabinets). The EM24 W1 also provides a ready-to-use solution for all commercial and industrial applications where an energy meter is required for cost allocation or energy efficiency monitoring, but cabling is not possible or it is too expensive.

“The EM24 wireless M-Bus version transmits all consumption data to the central acquisition system of the building without additional operations to be done, except for its wiring in the main cabinet,” Andrea Bernardi, International Product Manager, says. “With this launch Carlo Gavazzi expands its product range for the fiscal submetering, offering a wide variety of solutions and communication modes, all of them with MID certification, thus being recognised as a reliable supplier with a focus on the real needs and issues of this market.”

Developed by our competence centre in Italy, this new device is designed to be the ideal solution in both building and industrial automation, where energy and main electrical variable monitoring is required, for energy efficiency, cost allocation and fiscal metering.

Main technical features

- DIN-rail mounting, 4-DIN module size
- Internal antenna version
- External antenna version (with SMA antenna connector, cable, antenna and mounting bracket included)
- AV5 version: 400 VLL AC – 5 A by CT connection
- AV2 version: 400 VLL AC – 65 A, direct connection
- Self-powered
- MID and non-MID versions available
- 3-phase/4-wires and 3-phase/3-wires systems
- Set-up with a front Joystick and an LCD display
- Wireless M-Bus communication mode: T1,C1 @ 868 MHz
- Wireless M-bus protocol: according to OMS standard
- Compliant to the European Radio Equipment Directive (2014/53/RED)

ABOUT CARLO GAVAZZI AUTOMATION

Carlo Gavazzi Automation is an international electronics group with activities in the design, manufacture and marketing of electronic equipment targeted at the global markets of industrial and building automation.

Carlo Gavazzi Automation provides customers with technologically innovative, high quality and competitive solutions, in compliance with their requirements and expectations through its 22 National Sales Companies in Europe, the Americas and Asia & Pacific, operating with its production sites in Denmark, Italy, Malta, Lithuania and China.

For further information:

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