

Press Release

EM24DIN E1 - THE EASY AND COMPACT SOLUTION FOR ENERGY MEASUREMENT IN LAN NETWORKS

Particularly suitable for energy metering and cost allocation, even in MID applications.

Lainate, October 2018 - Carlo Gavazzi Automation, the international electronics group with activities in the design, manufacture and marketing of electronic equipment, today launches the 3-phase energy analyzer EM24-DIN with Modbus over an Ethernet port.

The Modbus TCP protocol is a specific version of the traditional Modbus RTU, which uses Ethernet over a TCP port. It can be used, without adding any further wiring, wherever a LAN is installed: a meter can just be added to the network via a suitable switch.

The EM24 series now has a Modbus TCP port, without requiring any external adaptor, while keeping all the advantages of its compact size and its ability to directly measure up to 65A or to manage 5A current transformers.

The EM24 is also certified according to MID Directive, Modules "B" + "D" of Annex II, for legal metrology relevant to active electrical energy meters, so it can be used whenever a money transaction is due for the energy supply. Both the versions (65A and 5A) are also cULus certified for North American applications up to 480VLL.

"Main features of the EM24DIN E1 are its compact dimensions, which allow its installation also into small switchgears, and its flexibility," Andrea Bernardi – International Product Manager, says. "With the launch of this device Carlo Gavazzi is taking a further step towards adding new protocols to its wide Energy Meter range, thus confirming its reputation as a worldwide supplier of innovative and cost and time effective metering solutions."

Developed by our Competence Centre in Belluno, this energy analyzer is ideal for applications in industrial and building automation.

Main technical features

- Class 1 (kWh) according to EN62053-21
- Class B (kWh) according to EN50470-1-3
- Accuracy $\pm 0.5\%$ RDG (current/voltage)
- Direct connection up to 65A or by 5A CT
- Communication port: Modbus TCP (other available ports: Modbus RTU and M-bus)
- Self power supply
- Dimensions: 4-DIN modules
- Protection degree (front): IP50
- Certified according to MID directive, Modules B and D of Annex II, for legal metrology relevant to active electrical energy meters (see Annex V, MI-003, of MID)
- cULus approved

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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