

Press Release

EM530MV AND RG SERIES OF ENERGY ANALYZERS: EXTENDED COMMAND AND COMMUNICATION FEATURES

Enhanced flexibility for challenging retrofit environments.

Lainate, March 2026 - Carlo Gavazzi Automation, the international electronics group with activities in the design, manufacture, and marketing of electronic equipment, announces new features for the EM530 MV and EM530 RG, the latest additions to its successful EM500 Series of three-phase energy analyzers.

The EM530 MV and RG are designed to deliver maximum installation flexibility thanks to their current input management via either 333 mV current sensor inputs or 100 mV/kA @ 50 Hz Rogowski coils.

They ensure high-accuracy energy measurement, even under distorted load conditions, all within a compact and rugged housing.

“Specifically engineered for retrofit applications,” says Andrea Bernardi, International Product Manager, “the EM530 MV and RG meet the need for space efficiency and installation adaptability, making them an ideal solution for modern energy monitoring projects, now offering a wider choice of communication protocols and output options.”

Developed at the company’s competence center in Italy, this new energy analyzer further strengthens and extends the existing product range, offering a comprehensive set of solutions fully compatible with Carlo Gavazzi’s energy management and monitoring platforms.

Main technical features

- Accuracy:
 - Equivalent to Class 0.5 (EM530 MV) according to EN62053-21;
 - Equivalent to Class 1 (EM530 RG) according to EN62053-21;
 - Class 2 (kvarh) according to EN62053-23
- Current inputs:
 - 100 mV/kA @ 50 Hz Rogowski coils
(max. primary current: 2880 A)
 - 333 mV current sensors
- Instantaneous variable readout: 3 × 7 digits (5+2)
- Energy readout: 11 digits (8+3)
- Voltage inputs: up to 415 V L-L with self power supply
- Current and voltage THD measurement (up to the 15th harmonic)
- Energy measurements (imported/exported):
 - Total kWh, kvarh, kVAh
 - Partial kWh, kvarh, kVAh
 - Total kWh per phase
- Run hour meters (imported and exported energy):
 - 8+2 digits; total operating time
- Communication options: RS485 Modbus RTU, wired M-Bus
- Digital output (alarm, pulse, remote command)
- Programmable display with slide show function
- cULus approval

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.

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