

Press Release

DCM2: THE HIGH-POWER DC ENERGY METER FOR BATTERY STORAGE SYSTEMS, DC INDUSTRY, MICROGRIDS, AND MCS CHARGERS

Accurate, connected, and reliable.
DC metering solutions up to 1500 V and 1500 A

Lainate, July 2026 - Carlo Gavazzi Automation, the international electronics group active in the design, manufacture, and marketing of electronic equipment, is proud to announce the launch of the DCM2, its direct-connection energy meter for DC systems.

The DCM2 significantly expands Carlo Gavazzi's metering portfolio beyond the existing DCT1 and DCM1 ranges by introducing a solution capable of supporting systems **up to 1500 V dc and 1500 A dc**, and applications reaching up to **2.25 MW**.

While the current DCM1 and DCT1 series already address DC metering and transducer applications up to 1000 V dc and 600 A dc the DCM2 has been specifically developed to meet the growing demand for higher-power DC infrastructures.

The DCM2 is ideally suited for **high-power Battery Energy Storage Systems (BESS)**, **DC distribution systems**, **microgrids**, and **EV fast-charging infrastructure**, with a specific focus on **Megawatt Charging Systems (MCS)** for trucks and heavy-duty vehicles. Thanks to its **cURus approval and CTEP compliance**, the DCM2 is especially well positioned for the North American market.

"The DCM2 represents an important milestone in the evolution of our metering solution range," says Andrea Bernardi, International Product Manager at Carlo Gavazzi. "With this product, we can address high-power DC applications up to 1500 A and 1500 V while ensuring flexibility, measurement accuracy, and reliability required by battery storage systems, microgrids, and next-generation EV charging infrastructure."

The DCM2 combines precise high-current DC measurement with advanced communication, safety, and diagnostic capabilities in a compact and robust solution. The system includes a transducer for voltage and current measurement together with a display unit featuring RS485 Modbus RTU and Ethernet Modbus TCP interfaces for easy integration and real-time monitoring.

Designed for demanding applications such as battery energy storage systems and high-power EV charging infrastructure, the DCM2 features sealable terminal caps, real-time temperature monitoring, Modbus diagnostic alerts, and secure busbar installation, ensuring reliable and safe operation while further strengthening Carlo Gavazzi's monitoring solutions.

Main technical features

- Direct-connection DC energy meter for systems up to 1500 V dc / 1500 A dc
- Designed for battery storage systems, MCS fast chargers, DC distribution and industrial applications
- RS485 Modbus RTU and Ethernet Modbus TCP integrated in the same unit
- Data refresh time: ≤ 200 ms
- Measurement of voltage, current, active power, energy, ampere-hours, run hours, and operating time
- Imported and exported energy measurement
- Energy resolution via Modbus communication: 0.0001 kWh
- cURus approved and CTEP compliant
- CE compliant according to applicable European directives
- Diagnostic alarms for overtemperature, overcurrent, and overvoltage
- Auxiliary power supply: 12–24 V dc $\pm 20\%$

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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