

FOR IMMEDIATE RELEASE:

DC Energy Meter with Ethernet **- Ideal for EV Fast Chargers -**



October 1, 2024 - Buffalo Grove, IL - Carlo Gavazzi is pleased to announce our new and innovative **DCM1 Energy Meter with Ethernet** which is aimed at the emerging and growing DC metering requirements in Fast Chargers for Electric Vehicles.

EV charging applications today are mainly based on fast, ultra-fast, and hyper-fast chargers, and Carlo Gavazzi continues to develop innovative and flexible solutions to meet the needs of this growing market. The **DCM1 Series** builds on the foundation laid with the DCT1 Series Energy Transducer, by introducing a remote display and an Ethernet port. The remote display can be installed in a part of the charger that is isolated from the high voltage, allowing safe and easy viewing of variables measured, and complies with European requirements. Like the DCT1 Series, the **DCM1 Series** also has a resolution of 0.1 Wh, which complies with CTEP requirements for charger certification in the USA.

The **DCM1 Series** can show information about the specific charging session, while being able to receive and process start/stop session commands. Equipped with a built-in Ethernet port, energy measurement information can be transmitted to the charger with Modbus RTU or Modbus TCP protocols.

Main technical features include:

- **Remote display solution:** High current transducer with dual temperature measurement for compensation, integrated DC voltage measurement, self-powered by the display unit to which it communicates via a supplied cable.
- **Display:** Featuring graphical visualization and quick setup
- **Multi-protocols:** RS485 Modbus RTU or Ethernet Modbus TCP available to adapt to different charger controllers
- **Wide measurement range:** 150 to 1,000 VDC, 300 A or 600 A max current
- **Compactness:** 90x115x60 mm transducer housing + 3-DIN display housing
- **Flexibility:** Transducer is mountable, with both busbar and cable lug, in different orientations
- **Fast serial data refresh time:** 0.1 Wh resolution class B kWh EN50470-4, also suitable for load emergency disconnection, 200 ms communication refresh time
- **Bi-directional kWh meter (imported/exported):** Ready for vehicle to grid applications (distributed storage by car batteries)
- **High accuracy:** Accuracy is maintained through the use of integrated temperature sensors
- **Certifications and Approvals:** CE, cURus MID, LNE, Eichrecht certified Charging session management and OCMF file generation

The **DCM1 Series DC Energy Meter with Ethernet** with its combination of high accuracy and resolution, is designed to provide an accurate monitoring system for certified fiscal billing in EV charging stations and battery energy storage systems, while providing power analysis capabilities to DC distribution systems in energy efficiency applications. They are available from Carlo Gavazzi's network of sales offices and distributors in the Americas. More information can be found at www.GavazziOnline.com.

Questions regarding this press release should be directed to: Sales@CarloGavazzi.com

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