

FOR IMMEDIATE RELEASE:

**Single Phase
AC Energy Meter for
Level 1 and 2 EV Charging**



September 12, 2023 - Buffalo Grove, IL - Carlo Gavazzi is pleased to announce the launch of our **EM511 Series 1-Phase Energy Meters**, which are simple, intuitive, self-contained, easy-to-install, remotely accessible energy meters suitable for load balancing in EV charging or PV and storage applications. They are ideally designed for 1-phase energy metering for Level 1 and 2 EV charging applications meeting all global certification requirements for this application.

The **EM511** is bi-directional, thus enabling the separate measurement of imported and generated energy, even in fiscal applications such as in vehicle-to-grid (V2G) technology.

The **EM511 Energy Meters** reduce commissioning time thanks to a quick setup procedure. In addition to monitoring power, real-time energy consumption, electrical variables, and total harmonic distortion, the EM511 provides other useful information for the maintenance team, such as a built-in run-hour meter that records total operating time.

The **EM511 Series** also has been designed to meet the requirements of energy analysis in Industrial and Building automation energy efficiency applications, for MID fiscal cost sharing, cost allocation and power metering.

Main technical features include:

- EM511: Class 1 (kWh) according to EN62053-21, class 2 (kVARh) according to EN62053-23,
 - Class B (kWh) according to EN50470-3
 - Current inputs: direct connection up to 45 A
- Instantaneous variables readout: (max 5+3) DGT, energy readout: 9 (6+3) DGT
- Voltage inputs: 120 to 240 V with self-power supply
- Current and voltage THD (up to 15th harmonic)
- Energy measurements (imported/exported): total and partial kWh, kVARh, and kVAh
- Run hour meters (relevant to both imported/exported energy: 8+2 DGT). Total operating time
- Digital input for remote contact monitoring, tariff management, partial meter start/stop, or partial meter reset
- Digital output (O1 version), or RS485 Modbus (S1 version) or M-Bus (M1 version)
- Alarm management
- Programmable display and slide show function
- cULus approval; MID certification (PF version), Swiss MID certification (SF version)

The **EM511 Series Energy Meters** are available from Carlo Gavazzi's network of sales offices and distributors in the Americas. More information is also available at www.GavazziOnline.com.

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

CARLO GAVAZZI Inc., 750 Hastings Lane, Buffalo Grove, IL 60089
Phone: 847.465.6100 Fax: 800.222.2659 Email: Sales@CarloGavazzi.com

CARLO GAVAZZI (Canada) Inc., 2660 Meadowvale Blvd., Mississauga, ON L5N 6M6
Phone: 888.575.2275 Fax: 905.542.2248 Email: Gavazzi@CarloGavazzi.com

CARLO GAVAZZI Mexico S.A. de C.V., Circuito Puericultores 22, Ciudad Satelite, Naucalpan de Juarez, EDOMEX CP, 53100
Phone/Fax: 52.55.5373.7042 Email: MexicoSales@CarloGavazzi.com

CARLO GAVAZZI Automação Ltda., Av. Francisco Matarazzo, 1752 Conj 2018, 05001-200 São Paulo SP
Phone/Fax: 55.11.3052.0832 Email: Info@CarloGavazzi.net.br