

## **FOR IMMEDIATE RELEASE:**

### **Multi-site Energy Data Loggers with Embedded Web Servers for Enterprise-wide Energy Management**



October 21, 2015 - Buffalo Grove, IL - Carlo Gavazzi Inc. launched a new line of modular monitoring systems for energy management. **VMU-C EM** is a data logger system for small to medium projects, **VMUC-Y EM** is a hardware data aggregator for medium to larger projects and **Em2 Server** is a software solution for large projects. They are designed to complement the extensive line of Carlo Gavazzi energy meters and current transformers.

The **VMU-C EM** is a combination of hardware modules, whose primary function is to collect data from a network of energy meters and environmental sensors and then make this data available to end users utilizing industry standard methods, such as integrated web server, FTP, HTTP and Modbus/TCP data transfers. In addition to data management, the **VMU-C EM** platform can provide a relay output, SMS or email alarms and scalable pulse rate inputs. The **VMU-C EM** can function as a standalone data logging solution for applications with up to 32 meters or as a data gateway for larger installations.

The **VMU-Y EM** is a data aggregator that is built upon the **VMU-C EM** hardware platform, with a primary function of aggregating data from a network of **VMU-C EM** data loggers in applications where support for more than 32 energy meters is required. The **VMU-Y EM** relies on **VMU-C EM** data loggers to collect the data from energy meters and environmental sensors, but it is also responsible for the management of collected data and web server function. Up to 10 **VMU-C EM** / 320 meters can be managed by single **VMU-Y EM**.

The **Em2 Server** is a software solution provided as a Virtual Machine software appliance to be hosted either in a customer's facility or remote server. Similar to the **VMU-Y EM**, the **Em2 Server** relies on the **VMU-C EM** for communication with energy meters. It aggregates data in large applications with up to 100 **VMU-C EM** loggers / 3,200 energy meters and provides web server function.

#### **VMU-C EM Features:**

- Data logger for energy meters, environmental sensors and rate pulses
- Web server function & data transfer (FTP, HTTP Modbus/TCP slave)
- RS-485 and Ethernet communication with meters
- USB ports for communication and backup
- Micro SD card port for data backup
- Data management of electrical variables from up to 32 energy meters
- Support for most Carlo Gavazzi meters
- Support for non-Carlo Gavazzi meters with open Modbus tool
- Option for up to 33 dual I/O modules
- Option for up to 11 analog, 22 temperature and 11 pulse rate inputs
- cUL listed product

#### **VMUY-EM Features:**

- Data aggregator for up to 10 VMU-C EM
- Web server and web services functions
- USB ports for communication and backup
- Micro SD card port
- cUL listed product

#### **EM2 Server Features:**

- Software solution based on VMware® technology
- Data aggregator for up to 100 VMUC-EM
- Web server and web services functions
- Linux 64 bit operating system
- Enterprise level database engine
- DVD distribution

The **VMU-C EM** data logger system, **VMUC-Y EM** hardware data aggregator and **Em2 Server** are available from Carlo Gavazzi's North American network of sales offices, distributors, and online at [www.GavazziOnline.com](http://www.GavazziOnline.com).

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