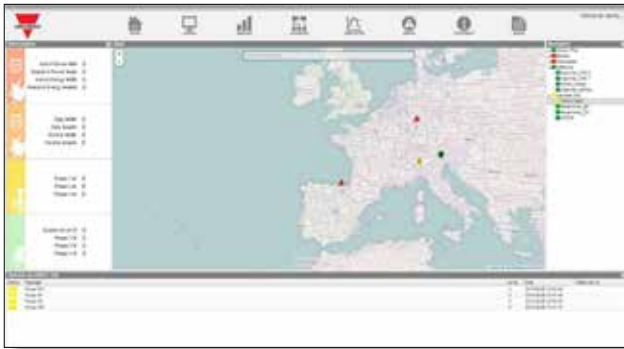




## Overview

# Energy management

# Em<sup>2</sup>-Server: Cloud solution for multi-site monitoring



## Home page

- Integrated MAP view
- Hierarchical tree to navigate data with ease
- Movable and resizable views fitting the needs of a control room



## Monitoring and analysis tool

- Historical data analysis tools
- Graphical monitoring features
- Comprehensive data exporting tools (standard XLS format)



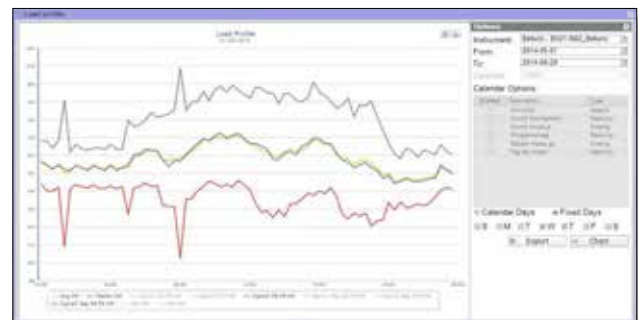
## Login page

- Multilingual web based user interface
- User rights management
- Concurrent data access from multiple locations



## Synoptics tool

- User defined background
- Active iconized energy meters showing real time variables and status
- Multiple Synoptics views may be created

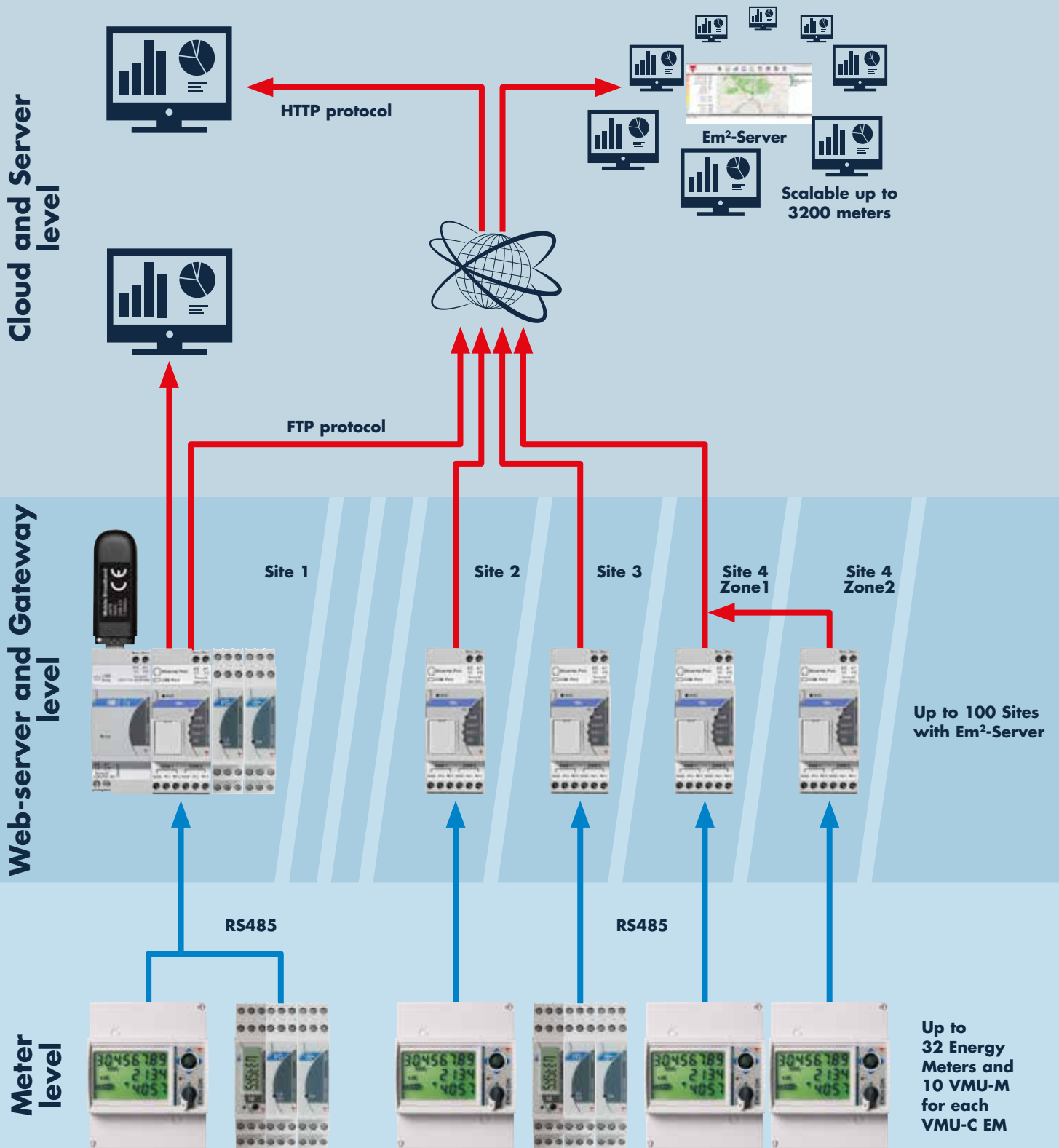


## Load profile tool

- Load profile statistical analysis based on actual data
- Profiles may be exported as Excel files or represented as charts
- Calculation of average, median, maximum and statistical confidence range

# Overview

## Diagrams



# Overview

## Energy management

Wound primary CT	CT for cable or bus-bar	CT for cable or bus-bar	CT for cable or bus-bar	CT for cable
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**TADK/TADK-2**

- Wound primary
- Primaries: 1 A to 40 A (TADK)  
1 A to 250 A (TADK-2)
- Secondary: 5 A (standard)  
1 A (available upon request)
- Sealable terminal covers
- CE



**CTD-1X/2X/3X/4X**

- For cable or bus-bar
- Cable: Ø23 mm to Ø51 mm
- Bar: 20x5 mm to 64x20 mm or 51x43 mm
- Sealable terminal covers
- Primaries from 50 A to 1600 A
- Secondary: 5 A (standard)  
1 A (available upon request)
- EN61869-2
- CE, cURus



**CTD-5S/6S**

- Split-core for cable or bus-bar
- Cable: Ø26 mm to Ø50 mm
- Bar: 26x32 mm, 50x52 mm
- Sealable terminal covers
- Primaries from 100 A to 1000 A
- Secondary: 5 A (standard)  
1 A (available upon request)
- EN61869-2
- CE, cURus



**CTD-8/9/10/11 S, V, H, Q**

- Solid or split-core for cable or bus-bar
- Bar: 31x81 mm (vertical), 81x31 mm (horizontal) to 38x127 mm
- Sealable terminal covers
- Primaries 150 A to 4000 A
- Secondary: 5 A (standard)  
1 A (available upon request)
- EN61869-2
- CE, cURus



**CTV-1X/2X/3X/4X**

- Split-core current sensor for cable
- Cable: Ø9.6 mm to 20 mm
- Primaries from 60 A to 400 A
- Secondary: 0.333 VAC
- CE, cURus

3-phase power analyzers	3-phase power quality analyzers	3-phase branch circuit power analyzers	3-phase power transducers
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**WM20**

- Dimensions: 96 x 96 mm
- Installation: panel mounting
- Accuracy 0.2% (voltage, current)
- Universal power supply
- Front protection degree IP65, NEMA4X, NEMA12
- Modular housing to build the instrument according to the real application needs
- Modbus and BACnet (both RS485 or Ethernet), and Profibus DPV0 communication port available
- Configuration software (PC or Android app)
- cULus



**WM30 / WM40**

- Dimensions: 96 x 96 mm
- Installation: panel mounting
- Accuracy 0.2% (voltage, current)
- Universal power supply
- Front protection degree IP65, NEMA4X, NEMA12
- Modular housing to build the instrument according to the real application needs
- Modbus and BACnet (both RS485 or Ethernet), Profibus DPV0, and EtherNet/IP communication port available
- 16-alarm PLC logic and digital inputs for utility metering (WM40)
- Built-in datalogger for instantaneous variables, dmd profiles and events (WM40)
- Configuration software (PC or Android app)
- cULus, Solar California listed



**WM50 and TCD12**

- Dimensions: 96 x 96 mm
- Installation: panel mounting
- Up to 96 channels, 32 A (8x TCD12)
- Accuracy 0.2% (voltage, main current), 0.5% (branch currents)
- Modbus communication port available (RS485 or Ethernet)
- Up to 6 digital outputs (static or relay) and 6 digital inputs or temperature and analogue input
- 96 channel alarms, freely settable set point for load monitoring
- Built-in datalogger for variables and events
- Configuration software (PC or Android app)
- cULus



**CPT-DIN**

- Dimensions: 45 x 83.5 x 98.5 mm
- Installation: DIN-rail
- Programmable one-, two- and three-phase measurement transducer
- Measurement of voltage, current, power, power factor, frequency and energy
- Energy metering, 9 digits
- Measuring inputs 3 x 230(400) VAC, 5 A
- Power supply: 18-60 or 90-260 VDC/AC
- Outputs: 3 analogue 20 mA, or 3 10 VDC, 2 relays for alarms
- RS485 Modbus RTU
- CE, cURus, CSA

# Energy management

## 1-phase energy meters for 32 A



### EM110

- Dimensions: 1 DIN module
- Installation: DIN-rail
- Electromechanical totalizer
- Bi-directional energy metering, 7 digits cl. B (EN50470)
- Measuring inputs: 115/230 VAC, 32 A (max 45 A)
- Self-powered
- Pulse output
- Sealable terminal covers
- CE, MID (PFB), cULus (115 V)

## 1-phase energy analyzers for 32 A



### EM111

- Dimensions: 1 DIN module
- Installation: DIN-rail
- Backlit touch LCD
- Measurement of voltage, current, power, power factor and frequency
- Bi-directional energy metering, 7 digits cl. B (EN50470)
- Measuring inputs: 115/230 VAC, 32 A (max 45 A)
- Self-powered
- Dual tariff management
- Pulse output or RS485 Modbus or M-Bus port
- Sealable terminal covers
- CE, MID (PFA and PFB), cULus (115 V)

## 1-phase energy analyzers up to 100A



### EM112

- Dimensions: 2 DIN modules
- Installation: DIN-rail
- Backlit touch LCD
- Display backup by supercapacitor
- Measurement of voltage, current, power, power factor and frequency
- Bi-directional energy metering, 8 digits, cl. B (EN50470)
- Measuring inputs: 115/230 VAC, 100 A
- Self-powered
- Dual tariff management
- Pulse output or RS485 Modbus or M-Bus port
- Sealable terminal covers
- CE, MID (PFA and PFB), cULus (115 V)

## 3-phase energy analyzers for current via 5A CT



### EM330

- Dimensions: 3 DIN modules
- Installation: DIN-rail
- Backlit touch LCD
- Measurement of voltage, current, power, power factor and frequency
- Bi-directional energy metering, 3x 8-digit, cl. B (EN50470)
- Measuring inputs: 400 to 480 VLL AC, 5(6) A current input via current transformer
- Auxiliary power supply
- Dual tariff management
- Pulse output or RS485 Modbus or M-Bus port
- Sealable terminal covers
- CE, MID (PFA and PFB), cULus

## 3-phase energy analyzers for direct current up to 65A



### EM340

- Dimensions: 3 DIN modules
- Installation: DIN-rail
- Backlit touch LCD
- Measurement of voltage, current, power, power factor and frequency
- Bi-directional energy metering, 3x 8-digit, cl. B (EN50470)
- Measuring inputs: 208 to 400 VLL AC, 65 A
- Self-powered
- Dual tariff management
- Pulse output or RS485 Modbus or M-Bus port
- Sealable terminal covers
- CE, MID (PFA and PFB)

## 1 and 3-phase energy transducers



### ET112 / ET340

- Dimensions: 2 DIN (ET112); 3 DIN (ET340) modules
- Installation: DIN-rail
- Measurement of voltage, current, power, power factor and frequency. THD (V, A) ET340
- Bi-directional energy metering, 2 tariffs, cl. 1 (EN62053-1)
- Measuring inputs: 115/230 VAC, 100 A (ET112); 208 to 400 VLL AC, 65 A (ET340)
- Self-powered
- RS485 Modbus port (screw, 2x RJ45)
- Optical port
- Sealable terminal covers
- CE

## 3-phase energy analyzers



### EM24

- Dimensions: 4 DIN modules
- Installation: DIN-rail
- Meter for energy from CT 5 A or for direct energy 65 A. External pulse counting
- Measurement of voltage, current, power, power factor and frequency. Metering from external sources and 4-tariff management
- Bi-directional energy metering on 2 8-digit counters, cl. B (EN50470-3)
- Voltage inputs: 3x230(400)VAC
- Current inputs: 5 A, 65 A
- 115-230 VAC power supply or self-powered
- 3 inputs for external dimension counting (IS)
- Pulse or relay output: RS485 (Modbus RTU), Ethernet (Modbus TCP), M-Bus
- Sealable terminal covers
- CE, MID (PF), cULus (5 A and Ethernet versions)

## 3-phase energy analyzers



### EM26

- Dimensions: 96 x 96 mm
- Installation: panel mounting
- Energy meter, metering from external inputs, THD measurement.
- Measurement of voltage, current, power, power factor and frequency. Metering from external sources and 4-tariff management
- Bi-directional energy metering on 2 8-digit counters, cl. B (EN50470-3)
- Voltage inputs: 3x230 or 3x100(400)V
- Current inputs: 5 A
- Power supply 90-260 VDC/AC
- 3 inputs for external dimension counting (I3)
- RS485 Modbus RTU, pulse or relay
- Sealable terminal covers
- CE, MID (PF), cULus

# Energy management

## Quick-fit 3-phase energy analyzers



### EM270 / EM271 / EM280

- Dimensions: 4 DIN modules or 72x72 mm
- Installation: DIN-rail or panel mounting
- Two 3-phase energy analyzers with sum function
- Current measurement by triple CT, solid core (EM270), split-core (EM271) with RJ plug, 6 transformers block (EM280)
- Quick installation through RJ connectors
- Automatic recognition of CT ratios
- Measurement of voltage, current, power, power factor and frequency
- Energy metering, cl. 1.
- Inputs: 3x230(440)VAC, current range according to the TCD accessories
- Outputs: 2 pulse (loads 1 and 2)
- RS485 Modbus RTU
- CE, cULus

## 3-phase CT for EM270 for cable or bus-bar



### TCD-1X/TCD-2X/TCD-3X

- Dimensions (LxHxP):  
TCD-1X: 74.84x72x66.80 mm  
TCD-2X: 105x72x50 mm  
TCD-3X: 135x78x50 mm
- Bus-bar sizes:  
TCD-1X: 15.90x30.48 mm  
TCD-2X: 21.26x25.26 mm  
TCD-3X: 31.25x31.25 mm
- Centre-to-centre distance:  
TCD-1X: 25 mm  
TCD-2X: 35 mm  
TCD-3X: 45 mm
- Primary:  
TCD-1X: 160 A  
TCD-2X: 250 A  
TCD-3X: 630 A
- CE, UL (with EM270)

## Multiple miniature split-core current sensor for EM271



### TCD\_M

- Equivalent to Class 1 (currents) of IEC61869-2
- Primary: 60 A (TCD0M), 100 A (TCD1M), 200 A (TCD2M), 400 A (TCD3M)
- Hole size: 9.6 mm (TCD0M), 15.5 mm (TCD1M), 15.5 mm (TCD2M), 20.5 mm (TCD3M)
- Cable length: 1.8 m (TCD0M), 1.5 m (TCD1M and TCD2M), 2.0 m (TCD3M)
- Auto-detection of the primary current rated value by the EM271 energy meter
- TCD\_M head for wall and DIN-rail mounting
- Umbilical connection (80 cm) from TCD\_M head to EM271 energy meter through RJ11
- CE, UL (with EM271)

## Multiple current transformer block for EM280



### TCD06BX / TCD06BS

- Equivalent to Class 0.5 (BX) and 1 (BS) (current) of IEC61869-2
- Solid core (BX) or split core (BS)
- Primary current: 32 A
- Hole size: 7 mm (BX) or 8.5 mm (BS)
- Hole centre distance: 17.5 mm
- RJ11 cable length: 80, 150 or 200 cm
- Auto-detection of the primary current rated value by the EM280 energy meter
- CE, UL (with EM280)

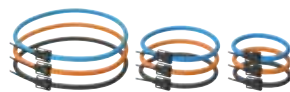
## 3-phase energy analyzers for 5A, CTV or ROG4K



### EM210

- Dimensions: 4 DIN modules or 72x72 mm
- Installation: DIN-rail or panel mounting
- LCD with two installation options
- Measurement of voltage, current, power, power factor and frequency
- Bi-directional energy metering, 3 x 3-digit or 8-digit readout, cl. B (EN50470)
- Voltage inputs: 3x230 (400) VAC; Current inputs: 5 A CT (AV version) or 0.333 V from CTV-xx sensors (MV version) or ROG4K coils (MV version)
- Self-power supply
- Pulse output 1, RS485 Modbus RTU, high speed (up to 115 kbps)
- Sealable terminal covers
- CE, cULus

## Rogowski coil for EM210



### ROG4K

- Flexible current sensor (Rogowski coil) for EM210
- Primary current from 20 to 4000 A
- Extended accuracy range  $\pm 1\%$
- Internal diameter from 115 mm to 275 mm
- User-friendly and safe coil closing system
- Direct connection to EM210 MV energy analyzer
- No power supply or external integrator required
- Coloured label on the cable for error-free connection check

## Quick-fit 3-phase energy transducer



### ET272

- Dimensions: 4 DIN modules
- Installation: DIN-rail mounting
- Two 3-phase energy transducers in one
- Current measurement by split-core with RJ plug
- Quick installation through RJ connectors
- Automatic recognition of CT ratios
- Measurement of voltage, current, power, power factor and frequency
- Energy metering, cl. 1
- Inputs: 3 x 230 (440) VAC, current range according to the TCD accessories
- Outputs: 2 pulse (loads 1 and 2)
- RS485 Modbus RTU
- Self addressing function by means of VMU-C EM
- CE, cULus

## 3-phase multi function meters



### WM12DIN/WM14DIN WM1296/WM1496

- Dimensions: 6 DIN modules or 96x96 mm
- Installation: DIN-rail or panel mounting
- 3 red LED displays
- Measurement of voltage, current, power, power factor and frequency, energy (WM14)
- Energy metering, 9 digits, cl. 2
- Measuring inputs: 230 VAC, 5 A
- Power supply: 90-260 VDC/AC
- Pulse or relay outputs
- RS485 Modbus
- CE, cULus

# Energy management

## Web server and datalogger



### VMU-C EM

- Micro PC with datalogger function
- Web Server, Push and API Pull
- Modbus TCP Slave function
- Data display (charts and tables)
- Data export to HTML compatible with Excel and other spreadsheets
- 4GB internal memory, Back-up memory on micro SDHC and USB
- Energy analysis of each individual load
- Invoicing simulation
- Virtual meter with sum function
- VMU-D alarm management (e-mail or SMS)
- Power supply: 24 VDC
- 1 RS485 for 32 Energy meters, 1 RS485 for VMU-M EM, RJ45 for Ethernet connection
- CE, cULus

## USB dongle connection modules



### VMU-D

- Dimensions: 2 DIN modules
- Installation: DIN-module
- Compatible with Carlo Gavazzi approved 3G/4G USB modems
- Power supply 24 VDC ( $\pm 20\%$ )
- Suitable for use with VMU-C and VMU-Y
- 3G or 4G Mobile Internet connectivity
- SMS alerting
- SMS commands
- CE, cULus

## Modules for VMU-C EM



### VMU-P EM / VMU-O EM

- Dimensions: 1 DIN modules
- Installation: DIN-rail
- Connection to VMU-C EM, directly or through VMU-M EM, on RS485 for measurement and state acquisition
- VMU-P EM measuring inputs: Temperatures, PT100 or PT1000, 1 for current 0-20 mA
- Power supply: from the local bus or from VMU-M EM
- VMU-O EM: 2 digital inputs / 2 relay outputs
- Proprietary communication with VMU-C EM or VMU-M EM
- CE, cULus

## Pulse counter concentrator + extension



### VMU-MC / VMU-OC

- Dimensions 1 DIN modules
- VMU-MC: 2 SO input (pulse counting or ON/OFF monitoring)
- VMU-OC: 3 SO input (pulse counting or ON/OFF monitoring)
- VMU-MC: MODBUS output
- VMU-OC: local bus connection to VMU-MC
- VMU-MC: 24 VDC power supply
- VMU-OC: local bus power supply
- VMU-MC: LCD display
- VMU-MC: modular solution (from 2 to 11 SO inputs)
- VMU-OC: extension module for VMU-MC
- Configuration by UCS Software
- Compatible with Utility meters with SO output

## Cloud solution for multi-site monitoring



### Em<sup>2</sup>-Server

- Virtual machine for energy data management
- Multi-site monitoring management
- Flexible and scalable architecture
- VMware® technology compatibility
- Load profile management
- Data analysis and benchmark
- Data and event logging
- Customizable graphical synoptic
- All data exported in format compatible with Excel or other spread sheets
- Tariffs and contract management
- Alarms management
- Database replication from up to 100 VMU-C EM

## Contactless power analyzers



### CPA050 / CPA300

- Dimensions: CPA050 63x46x25 mm (without connectors)
- CPA300 99x89x30 mm (without connectors)
- Installation: DIN-rail and panel mounting
- 1-phase AC (from 1 to 400 Hz) or DC
- Power supply from 9 to 30 VDC
- Contactless Hall effect sensing for current (CPA050:  $\varnothing$  15 mm hole, CPA300:  $\varnothing$  33 mm hole)
- True RMS AC and DC monitoring
- Voltage range: 800 VAC, 1000 VDC
- Current range: CPA050: 50 AAC, 50 ADC
- CPA300: 300 AAC, 400 ADC

## Pulse counter with wireless MBUS output



### SIU-MBC-XX

- Dimensions 105 x 27 x 60 mm
- DIN-rail housing
- Pulse counter (2 pulse inputs)
- Wireless MBUS output
- Battery power supply
- Indoor or outdoor installation (IP67)
- 12 years battery lifetime
- Compatible with SIU-MBM-02 concentrator
- Wireless MBUS T1 mode, 868 MHz

## MBUS and wireless MBUS concentrators



### SIU-MBM-01 / SIU-MBM-02

- Dimensions 95 x 71 x 60 mm
- DIN-rail housing
- SIU-MBM-01: MBUS input
- SIU-MBM-02: MBUS and wireless MBUS input
- MODBUS TCP/IP output
- Power supply from 15 to 21 VAC, from 18 to 35 VDC
- Ethernet port
- MBUS and Wireless MBUS scan feature
- SIU-MBM-01: up to 20 MBUS connectable devices
- SIU-MBM-02: up to 20 MBUS connectable devices and 32 wireless MBUS devices
- Set-up by UCS software

## OUR SALES NETWORK IN EUROPE

### AUSTRIA

Carlo Gavazzi GmbH  
Ketzergasse 374,  
A-1230 Wien  
Tel: +43 1 888 4112  
Fax: +43 1 889 10 53  
office@carlogavazzi.at

### BELGIUM

Carlo Gavazzi NV/SA  
Mechelsesteenweg 311,  
B-1800 Vilvoorde  
Tel: +32 2 257 4120  
Fax: +32 2 257 41 25  
sales@carlogavazzi.be

### DENMARK

Carlo Gavazzi Handel A/S  
Over Hadstensevej 40,  
DK-8370 Hadsten  
Tel: +45 89 60 6100  
Fax: +45 86 98 15 30  
handel@gavazzi.dk

### FINLAND

Carlo Gavazzi OY AB  
Ahventie, 4 B  
FI-02170 Espoo  
Tel: +358 9 756 2000  
myynti@gavazzi.fi

### FRANCE

Carlo Gavazzi Sarl  
Zac de Paris Nord II, 69, rue de la Belle Etoile,  
F-95956 Roissy CDG Cedex  
Tel: +33 1 49 38 98 60  
Fax: +33 1 48 63 27 43  
french.team@carlogavazzi.fr

### GERMANY

Carlo Gavazzi GmbH  
Pfnorstr. 10-14  
D-64293 Darmstadt  
Tel: +49 6151 81000  
Fax: +49 6151 81 00 40  
info@gavazzi.de

### GREAT BRITAIN

Carlo Gavazzi UK Ltd  
4.4 Frimley Business Park,  
Frimley, Camberley, Surrey GU16 7SG  
Tel: +44 1 276 854 110  
Fax: +44 1 276 682 140  
sales@carlogavazzi.co.uk

### ITALY

Carlo Gavazzi SpA  
Via Milano 13,  
I-20020 Lainate  
Tel: +39 02 931 761  
Fax: +39 02 931 763 01  
info@gavazziacbu.it

### NETHERLANDS

Carlo Gavazzi BV  
Wijkermeerweg 23,  
NL-1948 NT Beverwijk  
Tel: +31 251 22 9345  
Fax: +31 251 22 60 55  
info@carlogavazzi.nl

### NORWAY

Carlo Gavazzi AS  
Melkeveien 13,  
N-3919 Porsgrunn  
Tel: +47 35 93 0800  
Fax: +47 35 93 08 01  
post@gavazzi.no

### PORTUGAL

Carlo Gavazzi Lda  
Rua dos Jerónimos 38-B,  
P-1400-212 Lisboa  
Tel: +351 21 361 7060  
Fax: +351 21 362 13 73  
carlogavazzi@carlogavazzi.pt

### SPAIN

Carlo Gavazzi SA  
Avda. Iparraguirre, 80-82,  
E-48940 Leioa (Bizkaia)  
Tel: +34 94 480 4037  
Fax: +34 94 431 6081  
gavazzi@gavazzi.es

### SWEDEN

Carlo Gavazzi AB  
V:a Kyrkogatan 1,  
S-652 24 Karlstad  
Tel: +46 54 85 1125  
Fax: +46 54 85 11 77  
info@carlogavazzi.se

### SWITZERLAND

Carlo Gavazzi AG  
Verkauf Schweiz/Vente Suisse  
Sumpfstrasse 3,  
CH-6312 Steinhausen  
Tel: +41 41 747 4535  
Fax: +41 41 740 45 40  
info@carlogavazzi.ch

## OUR SALES NETWORK IN THE AMERICAS

### USA

Carlo Gavazzi Inc.  
750 Hastings Lane,  
Buffalo Grove, IL 60089, USA  
Tel: +1 847 465 6100  
Fax: +1 847 465 7373  
sales@carlogavazzi.com

### CANADA

Carlo Gavazzi Inc.  
2660 Meadowvale Boulevard,  
Mississauga, ON L5N 6M6, Canada  
Tel: +1 905 542 0979  
Fax: +1 905 542 22 48  
gavazzi@carlogavazzi.com

### MEXICO

Carlo Gavazzi Mexico S.A. de C.V.  
Calle La Montaña no. 28, Fracc. Los Pastores  
Naucalpan de Juárez, EDMEX CP 53340  
Tel & Fax: +52.55.5373.7042  
mexicosales@carlogavazzi.com

### BRAZIL

Carlo Gavazzi Automação Ltda.  
Av. Francisco Matarazzo, 1752  
Conj 2108 - Barra Funda - São Paulo/SP  
Tel: +55 11 3052 0832  
Fax: +55 11 3057 1753  
info@carlogavazzi.com.br

## OUR SALES NETWORK IN ASIA AND PACIFIC

### SINGAPORE

Carlo Gavazzi Automation Singapore Pte. Ltd.  
61 Tai Seng Avenue #05-06  
Print Media Hub @ Paya Lebar iPark  
Singapore 534167  
Tel: +65 67 466 990  
Fax: +65 67 461 980  
info@carlogavazzi.com.sg

### MALAYSIA

Carlo Gavazzi Automation (M) SDN. BHD.  
D12-06-G, Block D12,  
Pusat Perdagangan Dana 1,  
Jalan PJU 1A/46, 47301 Petaling Jaya,  
Selangor, Malaysia.  
Tel: +60 3 7842 7299  
Fax: +60 3 7842 7399  
sales@gavazzi-asia.com

### CHINA

Carlo Gavazzi Automation  
(China) Co. Ltd.  
Unit 2308, 23/F.,  
News Building, Block 1, 1002  
Middle Shennan Zhong Road,  
Shenzhen, China  
Tel: +86 755 83699500  
Fax: +86 755 83699300  
sales@carlogavazzi.cn

### HONG KONG

Carlo Gavazzi Automation  
Hong Kong Ltd.  
Unit 3 12/F Crown Industrial Bldg.,  
106 How Ming St., Kwun Tong,  
Kowloon, Hong Kong  
Tel: +852 23041228  
Fax: +852 23443689

## OUR COMPETENCE CENTRES AND PRODUCTION SITES

### DENMARK

Carlo Gavazzi Industri A/S  
Hadsten

### MALTA

Carlo Gavazzi Ltd  
Zejtun

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### LITHUANIA

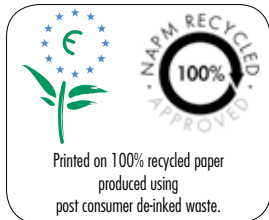
Uab Carlo Gavazzi Industri Kaunas  
Kaunas

### CHINA

Carlo Gavazzi Automation (Kunshan) Co., Ltd.  
Kunshan

## HEADQUARTERS

Carlo Gavazzi Automation SpA  
Via Milano, 13  
I-20020 - Lainate (MI) - ITALY  
Tel: +39 02 931 761  
info@gavazziautomation.com



**CARLO GAVAZZI**  
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