CARLO GAVAZZI
Automation Components

CARLO GAVAZZI

Energy management

Overview
Diagram

Em² Server, multi-language and multi-site

Cloud and On-Premise

API
SFTP
MQTT

maiacloud

Azure Certified Device

aws
Qualified Device
AWS IoT Core

Web-server and edge level

4G LTE

USB

LAN/WAN

INTERNET

Long Range Wireless

UWP 4.0

UWP 4.0

UWP 4.0

UWP 4.0

UWP M

UWP 4.0

UWP 4.0

RS485 Modbus

RS485 Modbus

LAN Modbus/TCP

Long Range Wireless

LAN Modbus/TCP

M-Bus and M-Bus wireless

Meters and sensors

VMU MC/OC

123456

UWP A

SIU MBM

RS485 Modbus

M-Bus wireless

M-Bus

A 1234
A 1234
A 1234

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A 1234

12345678
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CARLO GAVAZZI Automation Components. Specifications are subject to change without notice. Illustrations are for example only.
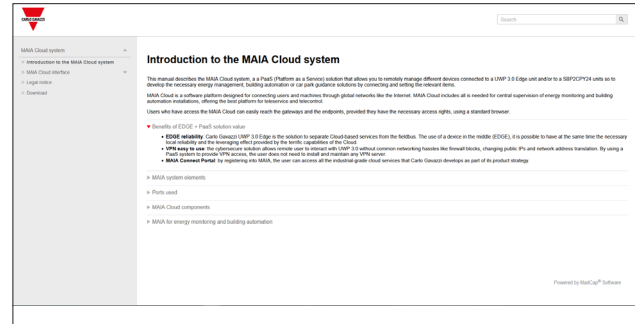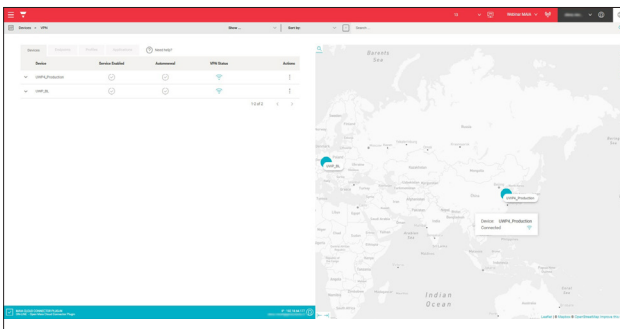
Maia Cloud: secure remote control
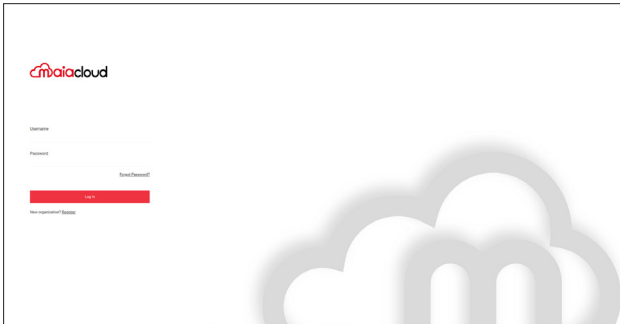
Secure access

- Secure connection and authentication via HTTPS
- User profiling for granular control on assets management
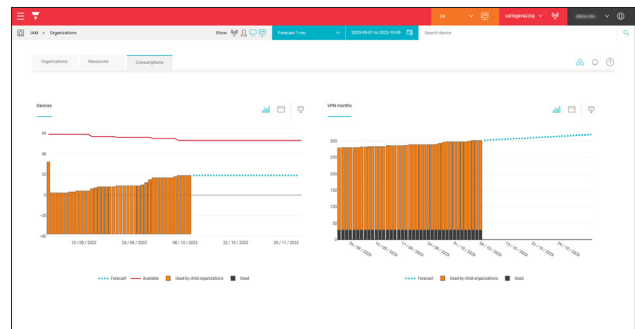- High availability and reliability of the MAIA Cloud portal

Ease of use

- Comprehensive documentation available as Web-manual
- Optimized user experience

Granular access

- Map view for locating devices
- Granular control on allowed application for specific device
- Organizations as containers of users and devices

Control and used resources

- Granular control on assets and licenses
- Charts and forecasts for managing and assign resources

Web-Apps access

- Access to web apps of connected devices via standard browsers for PCs and Tablets
- Access to UWP 3.0 and UWP 4.0 Web-Apps
- Access to Web-Apps of endpoints in the same LAN as the gateway
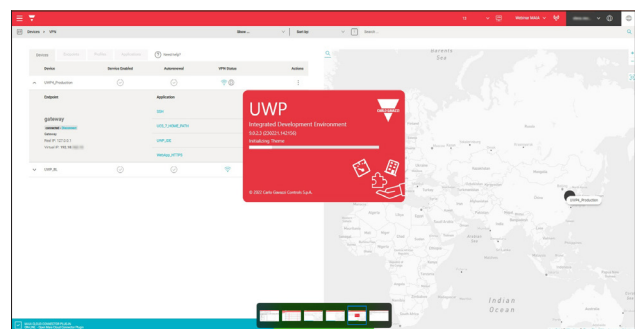
PC APP access

- Access to gateways and endpoints of allowed PC Apps
- Click'n go access to UWP 3.0 Tool and UWP 4.0 IDE
- Click'n go access to endpoints in the same LAN as the gateway to allowed PC APPs
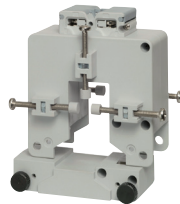
Overview

Energy management

CT for cable or bus-bar	CT for cable or bus-bar	CT for cable or bus-bar	CT for cable	CT for cable

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 3200 A
- Secondary: 5 A (standard) 1 A (available upon request)
- EN61869-2
- CE, cURus

CTV 1X/2X/3X/4X/6X/8X

- Split-core current sensor for cable
- Cable: Ø9.5 mm to 35,5 mm
- Bar: 50x90 mm (CTV-8X)
- Primaries from 60 A to 800 A
- Secondary: 0.333 VAC
- CE, cURus

CTA 5X/6X

- Split-core current sensor for cable
- Cable: Ø24 mm to 36 mm
- Primaries from 100 A to 600 A
- Secondary: 5 AAC
- CE, cURus

3-phase power analyzers	3-phase power analyzers	3-phase power quality analyzers	3-phase branch circuit power analyzers

WM15

- Dimensions: 96 x 96 mm
- Installation: panel mounting
- Power analyzers, metering from external inputs, THD measurement.
- Measurement of voltage, current, power, power factor and frequency.
- Bi-directional energy metering on 10-digit counters, class B EN50470-3, class 1 EN62053-21 or class 0.5S EN62053-22
- Voltage inputs: 230, 400, 480 or 600 V$_{LL}$
- Current inputs: 5 A
- Auxiliary or self-power supply
- Pulse output and RS485 Modbus RTU or M-Bus
- Sealable terminal covers
- CE, MID (PF), cULus

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 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, 65 A max (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/events
- Configuration software (PC or Android app)
- cULus

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Energy management

1-phase energy meters/analyzers	3-phase energy analyzers	1-phase energy analyzers	3-phase energy analyzers

EM110/EM111/EM112

- Dimensions: 1 DIN module
- Installation: DIN-rail
- Measurement of voltage, current, power, power factor and frequency (EM111, EM112)
- Bi-directional energy metering, 7 digits cl. B (EN50470) (EM111, EM112)
- Imported energy metering (EM110)
- Measuring inputs: 115/230 VAC, 32 A (EM110, EM111), 100 A (EM112), 5 A current transformer (EM111 AV5), 333 mV current sensor (EM111 MV5)
- Dual tariff management (EM111, EM112)
- Pulse output (EM110, EM111 and EM112) or RS485 Modbus or M-Bus port (EM111, EM112)
- CE, MID (PFA, PFB, SFA), cULus (115 V) (EM111)

EM330 / 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 400 to 480 V_{LL} AC, 5 A current input via current transformer (EM330) 208 to 400 V_{LL} AC, 65 A (EM340)
- Auxiliary power supply (EM330) Self powered (EM340)
- Dual tariff management
- Pulse output or RS485 Modbus or M-Bus port
- Sealable terminal covers
- CE, MID (PFA and PFB), cULus (EM330)

EM511

- Dimensions: 1 DIN modules
- Installation: DIN-rail
- Backlit LCD with mechanical push buttons
- Measurement of voltage, current, power, power factor, frequency, THD (voltage and current) and run-hour meters
- Bi-directional energy analyzer, 9-digit, cl. B (EN50470-3), 0.001 kWh resolution
- Measuring inputs: 120 to 240 V L-N, 45 A
- Self-powered
- Dual tariff management
- RS485 Modbus RTU (data refresh every 100 ms), M-Bus port, and digital input/ output (pulse or alarm)
- Sealable terminal covers
- CE, cULus, UKCA, MID (PFA, SFA and PFB Bi-directional)

EM530 / EM540

- Dimensions: 3 DIN modules
- Installation: DIN-rail
- Backlit LCD with mechanical push buttons
- Measurement of voltage, current, power, power factor, frequency and THD (voltage and current) and run-hour meters
- Bi-directional energy metering, 3x11-digit, cl. B (EN50470), 0.001 kWh resolution
- Measuring inputs: 208 to 415 V_{LL} AC, 5 A current input via current transformer (EM530), 208 to 415 V_{LL} AC, 65 A (EM540)
- Self-powered
- Dual tariff management
- Static output (pulse or alarm) or RS485 Modbus or M-Bus port (100 ms refresh time)
- Sealable terminal covers
- CE, MID (PFA, PFB and PFC), cULus

1 and 3-phase energy transducers	Communication interface OptoProg	3-phase power transducers	3-phase energy analyzers

ET112 / ET330 / ET340

- Dimensions: 2 DIN (ET112); 3 DIN (ET330, ET340) modules
- Installation: DIN-rail
- Measurement of voltage, current, power, power factor and frequency.
- Bi-directional energy metering, 2 tariffs, cl. 1 (EN62053-1)
- Measuring inputs: 115/230 VAC, 100 A (ET112); 208 to 400 V_{LL} AC, 5 A current input via current transformer (ET330); 65 A (ET340);
- Self-powered
- RS485 Modbus port (screw, 2x RJ45)
- Optical port
- Sealable terminal covers
- CE

OptoProg

- Bluetooth and USB interface for meters and analysers with optical port
- Compatible with WM15, WM20, WM30, WM40, WM50 and ET100, ET300 families
- Compatible with UCS PC software and UCS Mobile Android APP
- Battery powered
- CE, FCC, IC, Bluetooth

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

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 or self-powered
- 3 inputs for external dimension counting (IS)
- Pulse or relay output; RS485 (Modbus RTU), Ethernet (Modbus TCP), M-Bus (wired and wireless)
- Sealable terminal covers
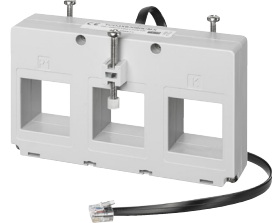- CE, MID (PF), cULus (5 A and Ethernet ver.)

Energy management

Quick-fit 3-phase energy analyzers	3-phase CT for EM270 for cable or bus-bar	Multiple miniature split-core current sensor for EM271	Multiple current transformer block for EM280

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
- Active energy: Equivalent to Class 1 (EN62053-21)
- Inputs: 3x230(440)VAC, current range according to the TCD accessories
- Outputs: 2 pulse (loads 1 and 2)
- RS485 Modbus RTU
- CE, cULus

TCD 1X/TCD 2X/TCD 3X

- Equivalent to class 0.5 (current) of IEC61869-2
- 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)

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)

TCD06 BX / TCD06 BS

- Equivalent to class 0.5 (BX) and class 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 ROG 4K	Rogowski coil	Energy transducer for DC systems	Contactless power analyzers

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 to115 kbps)
- Sealable terminal covers
- CE, cULus, MID (AV and PF version)

ROG 4X / ROG 4U

- Flexible current sensor (Rogowski coil) for EM210 (MV version)
- Primary current from 20 to 4000 A (ROG4X), from 20 to 2000 A (ROG4U)
- Secondary output 100 mV/kA @ 50 Hz, 120 mV/kA @ 60 Hz
- Extended accuracy range ± 1%
- External coil diameter: 90 mm to 290 mm (ROG4X) from 105 mm or 135 mm (ROG4U)
- Coil thickness: 8.5 mm
- Direct connection to EM210 MV energy analyzer
- No power supply or external integrator required
- Coloured label on the cable for error-free connection check
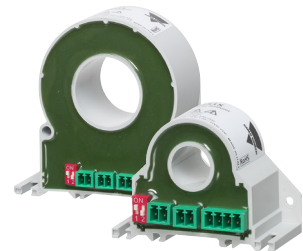- CE and cURus (ROG4X), cULus (UL2808) (ROG4U)

DCT1

- Dimensions: 92 x 115 x 58 mm
- Installation: DIN rail and back panel by screw terminals
- Cable loss compensation
- Measurement of voltage, current, power
- Bi-directional energy metering
- Voltage input: from 150 to 1000 VDC; Current input: 300 A max (AV30 version), 600 A max (AV60 version)
- Auxiliary power supply 12 to 24 VDC
- Modbus RTU or SML (200 ms data refresh time). Signed data transmission
- Class 1 accuracy (IEC 62053-41), 0.0001 kWh energy resolution
- CE, cURus

CPA050 / CPA300

- Dimensions:63x46x25 mm (CPA050), 99x89x30 mm (CPA300)
- 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: ø 15 mm hole (CPA050) ø 33 mm hole (CPA300)
- True RMS AC and DC monitoring
- Voltage range: 800 VAC, 1000 VDC
- Current range: 50A AC/DC (CPA050), 300 A AC, 400 A DC (CPA300)

Energy management

IIoT Edge devices	Cloud solution	Long range endpoint adapter	Long range wireless gateway

UWP 4.0 / UWP 4.0 SE

- Datalogger/Controller with
- Web-Server, for energy efficiency management applications
- Local gateway functions (BACNet and Modbus)
- Remote gateway functions (FTP, SFTP, FTPS, Rest-API)
- Microsoft Azure & Amazon AWS Certified for IoT
- Huge ecosystem of compatible meters, sensors, actuators
- Flexible control functions
- MAIA Cloud VPN for secure remote access
- Security Capabilities Verified by UL to level SILVER (SE)

MAIA CLOUD

- Cloud solution for remote management of IoT devices
- Compatible with UWP4.0, UWP4.0 SE and XAP
- Secure VPN Management
- User authentication and organization management
- Remote connection to gateways, connected endpoints and connected meters

UWP A

- Dimensions: 2-DIN modules
- Endpoint adapter that provides LoRa® or LoRaWAN® communication to an RS485 Carlo Gavazzi meter
- EU868 and US915 ISM Bands
- Power supply 24 VDC, 115-240 VAC
- CE, LoRaWAN Certified^{Cm}
- Plug and play commissioning via UCS Software
- Up to 50 UWP A each UWP M
- Up to 10 km wireless communication distance in open air
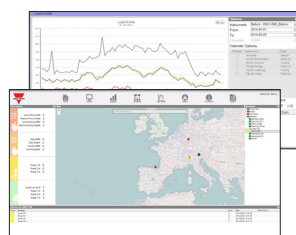- High performance antenna included

UWP M

- Dimensions: 2-DIN modules
- LoRa master concentrator that gathers data from multiple UWPA adapters.
- Comprehensive solution for integrating Carlo Gavazzi meters and analysers into Carlo Gavazzi private LoRa network
- EU868 and US915 ISM Bands
- Power supply 24 VDC, 115-240 VAC
- Works in combination with the UWP
- Set-up via UWP Software Tool
- Up to 10 km wireless communication distance in open air
- High performance antenna included

Multi-site monitoring	M-Bus and wireless M-Bus concentrators	Quick-fit 3-phase energy transducer	Pulse counter concentrator + extension

Em² Server

- Software 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
- Configurable reports in PDF or Excel formats
- Tariffs and contract management
- Alarms management
- Database replication from up to 100 VMU-C EM or UWP

SIU MBM-01 / SIU MBM-02

- Dimensions 95 x 71 x 60 mm DIN-rail housing
- SIU MBM-01: M-Bus input
  SIU MBM-02: M-Bus and wireless M-Bus input
- MODBUS TCP/IP output
- Power supply from 15 to 21 VAC, from 18 to 35 VDC
- Ethernet port
- MBUS and Wireless M-Bus scan feature
- SIU MBM-01: up to 20 M-Bus connectable devices
- SIU MBM-02: up to 20 M-Bus connectable devices and 32 wireless M-Bus devices
- SIU-MBM-01-160: up to 160 M-Bus connectable devices
- Set-up by UCS software

ET272 + VMU C EM

- 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

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

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