CARLO GAVAZZI
Automation Components

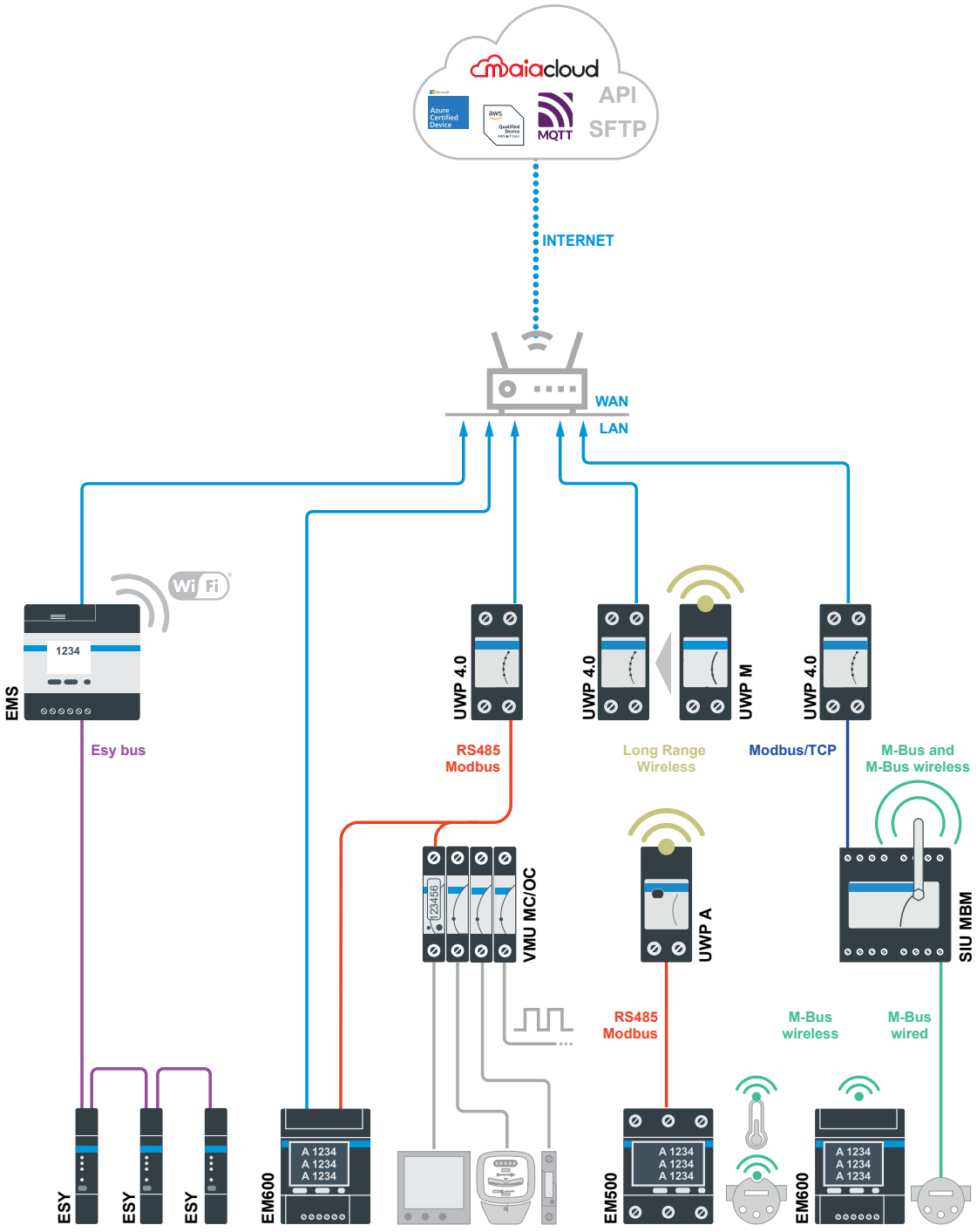
CARLO GAVAZZI

Overview

Energy management

Overview

Diagram



Our VPN and Cybersecurity

See the dedicated Brochure

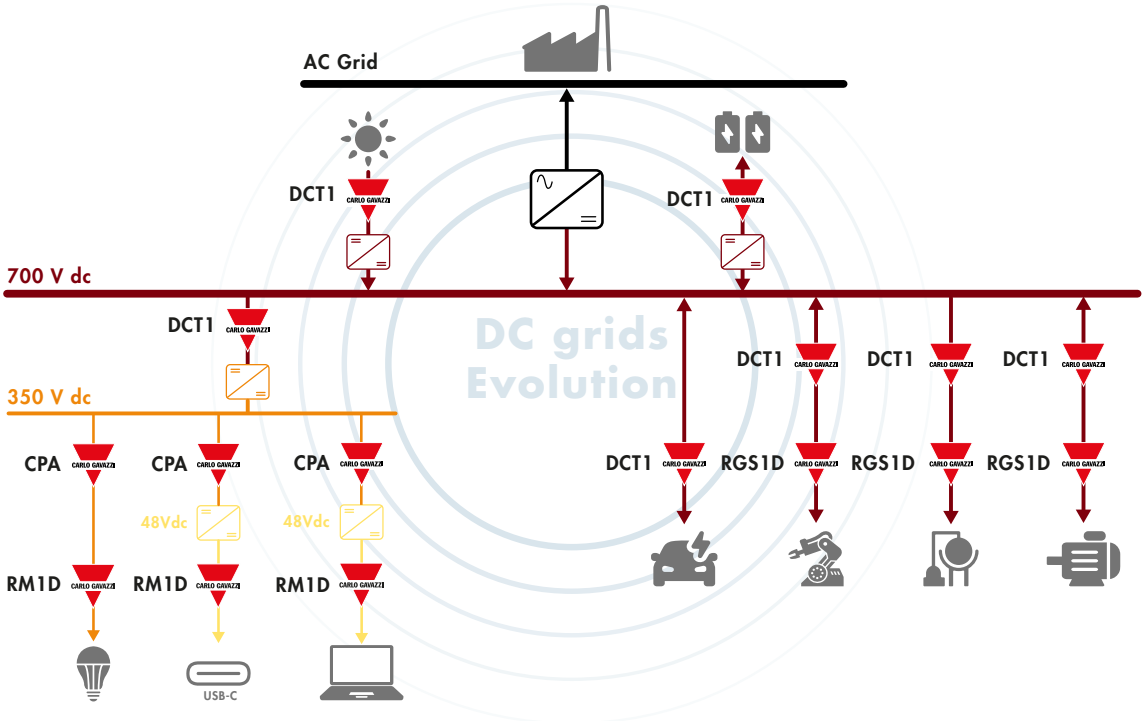
MAIA Cloud simplifies secure remote connectivity, enabling centralized management, faster support and lower operational costs.

- Secure remote access, anytime, anywhere
- Encrypted VPN connectivity
- No VPN servers to manage
- Centralized multi-site management
- Faster diagnostics and support
- Reduced maintenance costs
- OTA updates & fleet management
- Role-based access control
- Scalable for energy, industrial & building applications

See the complete Statement

Cybersecurity is at the core of Carlo Gavazzi solutions. Our secure-by-design approach protects devices, communications and infrastructures through advanced security measures, controlled access and encrypted connectivity. Designed for today's connected environments, our technologies help reduce cyber risks, ensure operational continuity and safeguard critical data, allowing users to embrace digital transformation with confidence, reliability and peace of mind.

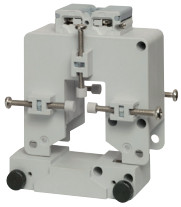
The Carlo Gavazzi DC grid solution



CARLO GAVAZZI Automation Components. Specifications are subject to change without notice. Illustrations are for example only.

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	**CTD 5S/6S**	**CTD 8/9/10/S,V,H**	**CTV 1X/2X/3X/ 4X/6X/8X**	**CTA 5X/6X**
• 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	• 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	• 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	• 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 mV • CE, cURus	• Split-core current sensor for cable • Cable: Ø24 mm to 36 mm • Primaries from 100 A to 600 A • Secondary: 5 A • CE, cURus

3-phase power analyzers	3-phase power analyzers	3-phase power quality analyzers	3-phase branch circuit power analyzers
WM15	**WM20**	**WM30 / WM40**	**WM50 and TCD12**
• 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 VLL • 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	• 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	• 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	• 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

Energy management

1-phase energy meters/analyzers

EM110/EM111/EM112

- Dimensions: 1 DIN and 2 DIN modules
- 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)

3-phase energy analyzers

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 VLL AC, 5 A current input via current transformer (EM330)
  208 to 400 VLL 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)

1-phase energy analyzers

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)

3-phase energy analyzers

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 VLL AC, 5 A or 333 mV, current input via current transformer, or Rogowski sensors (EM530), 208 to 415 VLL 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

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 (EN62053-21)
- Measuring inputs: 115/230 VAC, 100 A (ET112); 208 to 400 VLL AC, 5 A current input via current transformer (ET330); 65 A (ET340);
- Self-powered
- RS485 Modbus port (screw, 2x RJ45)
- Optical port via OptoProg Bluetooth/USB interface
- Sealable terminal covers
- CE

3-phase energy 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.1 (IEC62053-21)
- Voltage inputs: 3x230 (400) VAC; Current inputs: 5 A CT (AV version) or 0.333 V from CTV-xx sensors (MV version)
- Self-power supply
- Pulse output 1, RS485 Modbus RTU, high speed (up to115 kbps)
- Sealable terminal covers
- CE, cULus

3-phase energy analyzers for CTV, ROG 4X or 4U

EM530 MV / EM530 RG

- 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
- EM530 MV: Equivalent to Class 0.5 (EN IEC 62053-21) - EM530 RG: Equivalent to Class 1 (EN IEC 62053-21)
- 0.001 kWh resolution
- Measuring inputs: 208 to 415 VLL AC
- EM530 MV: 333 mV current transformer (CTV) - EM530 RG: 100 mV/kA @ 50 Hz, 120 mV/kA @ 60 Hz Rogovski coils (ROG 4K)
- Self-powered - Dual tariff management
- RS485 Modbus (100 ms refresh time)
- Sealable terminal covers
- CE, cULus

Rogowski coil

ROG 4X / ROG 4U

- Flexible current sensor (Rogowski coil) for EM530 (RG version)
- Primary current from 1.2 to 2880 A (ROG4X), from 1.2 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 EM530 RG 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)

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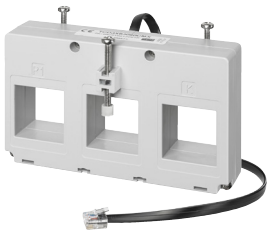
Energy management

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
- 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

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



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)

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

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 power analyzer

EM630 B / EM640 B

- Dimensions: 4 DIN modules
- Installation: DIN-rail
- Display: Backlit LCD (128×96 matrix)
- Measurement of voltage, current, power, power factor, frequency and THD (voltage and current), run-hour meters and demand values
- Bi-directional energy metering, 3×11-digit, 0.001 kWh resolution
- 208 to 480 VLL AC, 5 A or 333 mV current input via current transformer , class 0.5S (EM630)
- 208 to 480 VLL AC, 65 A direct current input , class 1 (EM640)
- Dual tariff management
- Dual Ethernet port (HTTPS REST API and Modbus TCP, 100 ms refresh time)
- Sealable terminal covers
- CE, cULus

3-phase power analyzer

EM630 W / EM640 W

- Dimensions: 4 DIN modules
- Installation: DIN-rail
- Display: Backlit LCD (128×96 matrix)
- Measurement of voltage, current, power, power factor, frequency and THD (voltage and current), run-hour meters and demand values
- Bi-directional energy metering, 3×11-digit, 0.001 kWh resolution
- 208 to 480 VLL AC, 5 A or 333 mV input, Class 0.5S (EM630) / 65 A direct input, Class 1 (EM640)
- Dual tariff management
- Integrated Wi-Fi LAN & Wi-Fi Direct connectivity
- Web-based setup, diagnostics and energy logging
- CE, cULus, MID and SunSpec compliant

Energy meter for AC systems and EV chargers

EM580

- Dimensions:3 DIN modules
- Installation: DIN-rail
- 128x96 Matrix LCD with mechanical push buttons
- Charging session management
- Cable loss compensation
- Tariff visualization (according to A.F.I.R.)
- Measurement of voltage, current,power, power factor, frequency
- Bi-directional energy metering
- Voltage input: 208 to 400 VLL AC
- Current input: 65 A direct connection
- Self-powered
- RS485 Modbus RTU (100 ms refresh time), 256-bit or 384-bit signature.
- Class B EN50470-3 (MID), 0.001 kWh energy resolution
- CE, MID, Eichrecht

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

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Energy management

Energy Management System

EMS 1.0

- All-in-one device with meter and CPU integrated in a single unit
- 3-PH energy meter, class 0.5S (CT version), class 1 (direct connection)
- Multi-load energy management system
- Powerful ARM CPU running Yocto Linux
- Embedded Wi-Fi and built-in web server for smartphone-based configuration
- Automatic generation and delivery of reports
- MAIA Cloud VPN for secure remote access and fleet management firmware updates
- Security capabilities verified by UL to SILVER (SE) level
- Software Development Kit (SDK) enabling easy porting of OEM software onto the EMS

Energy Management System

ESY

- Dimensions: 1 DIN module
- Expandable up to 10 ESY modules per EMS 1.0
- 3 current channels per module
- Compatible with 5 A CTs and 333 mV sensors
- Supports installations up to 10 kA
- Daisy-chain connection via ESY-BUS
- Self-powered via ESY-BUS
- Plug & play commissioning with EMS
- Measures energy, power, PF and current THD
- Fast updates from <100 ms

IIoT Edge devices

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)

Dynamic load balancing controller

UWP 4.0 DLB

- OCPP 1.6J compatibility
- Ultra-compact design - only 2 DIN modules
- Optimized grid capacity for maximum efficiency
- Reduced operational costs
- Intuitive interface for enhanced User Experience
- Scalability for growing demands and future upgrades
- Secure remote access via MAIA Cloud
- Advanced Cybersecurity and compliance

Energy meter for DC systems and EV chargers

DCM1

- Dimensions: 92x115x58 mm (DCM1-T), 3 DIN modules (DCM1-D)
- Installation: DIN rail and back panel byscrew terminals (DCM1-T), DIN rail (DCM1-D)
- Cable loss compensation
- Tariff visualization (according to A.F.I.R.)
- 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 and Modbus TCP (256-bit or 384-bit signature)
- Class 1 accuracy (IEC 62053-41), 0.0001 kWh energy resolution
- CE, cULus , MID, Eichrecht, LNE

Energy meter for DC systems EV and BESS

DCM2

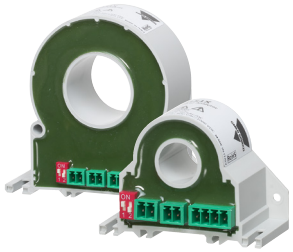
- DC energy metering up to 1500 V DC and 1500 A
- Class 1 accuracy (EN IEC 62053-41)
- Voltage accuracy ±0.5%, power accuracy ±1%
- Bidirectional energy metering for BESS and EV charging
- 0.0001 kWh resolution via Modbus
- Modbus RTU & Modbus TCP onboard
- ≤ 200 ms refresh time for real-time monitoring
- CTEP compliant and cURus approved
- Flexible split architecture for easy system integration
- Operating temperature from -25°C to +70°C
- OCMF support

Insulation monitoring for DC EV chargers

DRC61

- Dimesions: 4 DIN modules
- Insulation monitoring for DC systems up to 1000 VDC
- Continuous measurement of insulation resistance to ground
- Early detection of insulation degradation and faults
- Configurable pre-alarm and alarm setpoints
- Two independent relay outputs for alarm management
- Integrated overvoltage and undervoltage monitoring
- Modbus RTU communication for configuration and diagnostics
- Local and remote Test & Reset functions
- Compatible with CCS and CHAdeMO fast charging architectures

Contactless power analyzers



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)

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OUR COMPETENCE CENTRES AND PRODUCTION SITES

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Hadsten

ITALY
Carlo Gavazzi Controls SpA
Belluno

LITHUANIA
Uab Carlo Gavazzi Industri Kaunas
Kaunas

MEXICO
Carlo Gavazzi Americas Inc.
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CHINA
Carlo Gavazzi Automation
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Energy to Components!

ENERGYMANAGEMENT OVERVIEW ENG 09/2026
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