MCS Development. Integration. Production.

The perfect communication between charging point and e-vehicle – according to EN 15118.

The compact Charge Controller for two independent charging points.

Ideas become reality.
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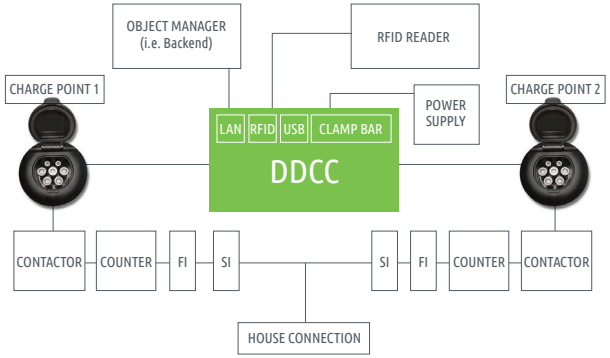
E-mobility : Charging technology 2.0

The MCS Charge Controller Type 6942 takes control of independent communication between 1 to 2 e-vehicles acting as a central control unit. At the same time, the DDCC can be used in a variety of ways, as a stand-alone, in a closed environment or integrated into an existing system.

- For AC wallboxes and charging columns
- In private or commercial environment
- For campus solutions (fleet management)
- For public areas and
- For Smart-Grid / Smart-Meter-Gateway applications



- Compact design, only 106 mm wide (on C-rail)
- Integrated configuration software
- RFID support
- Extensive interfaces
- Zero crossing according to EN 15118
- EV protocols : BC, HLC (ISO 15118 AC)
- Remote protocols : COAP (61850-90-8), OCPP

The DDCC Dual Digital Charge Controller at a glance

The MCS DDCC Type 6942 communicates with 1 / 2 connected e-vehicles and controls the charging functions of a Wallbox or a charging pole. The charging points can be used independently of each other. The DDCC detects the current status data (e.g. state of charge) and can receive control data from a higher-level system (e.g. backend). For this purpose, the DDCC has a variety of direct or indirect control and access options, whether via hardware-based interfaces or software configurations. The integrator can operate the Charge Controller DDCC as a stand-alone solution or integrate it into a system-oriented network of supply points using a central management system.

The integrated RFID support, along with a connectable RFID reader, ensures configurable, controlled and authorised access, even without a LAN connection.

More MCS products for e-mobility

By additionally operating the automatic phase changeover switch (APUM) Type 6934, network-serving functions within the supply range can be realised.

TECHNICAL DATA

General	**Dimensions**	Approx. 86 x106 x 61 mm (without connector and cable)
	Weight	Approx. 150 g
	Temperature range	-20°C to +70 °C
	Supply	24V / 0.8A (±5%)
	Power consumption	Max. 7W
Interfaces	**LAN**	1x Rj45 8P/4C Ethernet 10 / 100Mbit
	RS232	1x RJ11 6P/ 6C (for RFID-Reader)
	USB	1x USB 2.0
Locking	**Support**	Internal energy storage
	Motor load for locking	2 x 12V / 3A (max. 600 ms)
	Actuators	Magnetic and/or motorized
	Security	Emergency unlocking in case of power failure by internal energy storage
Control	**Contactor**	2x charging switches each 24V / 100mA
	Fan request	1x 24V / 100mA
	Vehicle connection	2x Control Pilot (CP) acc. to 61851-1 Mode 3 2x Proximity Pilot (PP) acc. to 61851-1 Mode 3
	Button inputs	2x push button against PE for start release
Configuration	**Configuration**	Configuration Configuration database for: • Performance data • Access control • Transmission parameters • Locking mechanisms • Protocol properties
Status detection	**Contactor switch**	2x feedback evaluation contactor
	Interlocking	2x interlocking status
	Measurement	2x evaluation of counter and/or measured values from connected APUM
	Synchronisation	1x Zero Crossing Detection acc. to EN15118
Software protocols	**Automotive**	BC – charge acc. to 61851-1 Mode3 HLC – charging acc. to ISO 15118 AC
	Remote	Communication protocol acc. to 61850-90-8 via COAP (OCPP 1.6 / 2.0*)
Extensions	**Clock**	Power battery-supported real-time clock
	System	Allocation to different charging systems
	Performance	Dynamic load distribution of available power to existing charging points
Security	**Software**	Encrypted firmware image
	Access	Security protocol support Encrypted RFID access file

We are happy to provide you with further product details, additional hardware components and support you with any kind of software integration.

Contact us for appointments or if you have questions about our development services in hardware and software as well as products or production options.

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