

## EVC-5.2DC CloudSmart Controller G2V/V2G



Multifunctional EV DC charging station controller especially designed for the European market. A complete charging station supporting CCS/Chademo/AC-Type2 IEC 15118 be set-up. Any station uptill 300KW can be build using multi powermodele CAN-bus The module can be managed by a Cloud back-office using OCPP 1.5/1.6/2.0 or LMS interfacing. Load management for smart grid applications is implemented in the built-in embedded software. A Local Micro Smart Grid function can be set-up adding two extra kwh meters on the mod-bus. The available power for charging will be calculated real-time on bases of public grid power and the Solar/wind energy power. This controller can be connected with the EVC52A / EVDC modules by CAN bus (slave module) to extend the number of outlets up till 24.

<b>Hardware</b>	
DIN-rail box	PVC
Dimensions (LxWxH)	90 x 82 x 45mm (103 x 110 x 45) mm incl. connectors)
Weight	275 g
Temperature range (ambient)	-25°C - +70°C
Humidity	5% - 95%
Protection grade	IP20
Pluggable connectors	3 x 16
Embedded microcontroller	NXP ARM controller
Penta band 3G/GSM modem	850/900/1800/1900/2100 MHz
Ethernet Extension	√
GPS global positioning	√
Onboard temperature monitoring	√
Power supply	12 VDC
Power consumption	3 Watt
<b>Interfacing</b>	
RFID	2 x RS232
Buzzer	Integrated
Tilt sensor input	1 x (optional)
kWh meter	2 x S0/Modbus/RS485/P1 (configurable)
Output Power sensing	√
Display	Via Ethernet
Master/slave	Controlling up to 23 slave modules
Lock controller	2 x mechanical lock output Mennekes/Bals/Scame/Phoenix
Electric Vehicle Communication	CSS /Chademo IEC 15118-2 ,Type 2 IEC 62196-2, supporting mode 3 charging. IIEC 61851-23 Vehicle Communication V2G-support
LED	2 x triple LED output
CAN-bus	2 x CAN-bus interface. Up-to 30 nodes for Powermodules
RCD status	2 x RCD trip detect
Contactator status	Contactator failure detect
Contactator status	2 x DC contactor switch output
Earth Insulations test	√
Galvanic isolated output voltage and current monitoring	√
	Remote firmware update /Local EVC manager via USB/CAN
	OCPP 1.2/1.5/1.6/2.0 or LMS protocol
	Cloud back-office by LMS or by OEM using OCPP
<b>Conformity</b>	
	Immunity IEC 61000-6.2 Emission IEC 61000-6.3
	Compatibility: EV-ready / PTB eichambt