



DATASHEET: i-CHARGE CION Pro



Example image – EMCIONP2PO

SCHRACK-INFO

Thanks to its design, the i-CHARGE CION charging station is perfect for charging your electric vehicle in the garage or in public spaces.

The TYPE 2 charging point enables the safe charging of all electric vehicles currently available on the market with up to 22 kW. The charging station contains a residual current monitoring unit (RCMU) and can therefore be integrated into existing installations without any additional effort.

The charging data is transmitted via the standardized OCPP protocol. A viewing window enables the built-in MID-calibrated meter to be read and allows the operator to bill according to the energy consumed. Authentication takes place via integrated card reader or optionally via QR code.

Several charging stations can be connected in an Ethernet network via the load management system. (see page 2)

TECHNISCHE DATEN

Order number	EMCIONP2CO	EMCIONP2CE	EMCIONP2PO	EMCIONP2PE
Housing material	Polycarbonate (PC) - front: light gray, back: blue-gray			
Charging point	TYPE 2 cable 5 m (gross) – 4,7 m (net); 3,7 - 22 kW		TYP 2 plug; 3,7 - 22 kW	
Charging current levels *	1~: 13 A; 16 A 3~: 13 A; 16 A; 20 A; 32 A			
Power supply *	1~/N/PE; 230 V; 16 A 3~/N/PE; 400 V; 32 A			
Back-up fuse **	LS 3-polig C 32 A*; FI-Schutz Typ A 30 mA			
Rated power **	22 kVA			
Protective devices	Residual current monitoring unit 6 mA according to ÖVE/ÖNORM EN 61851			
Protection class	IP54; IK10			
Supply line	Max. clamping cross-section 5x10 mm ² (suitable for copper and aluminum wires)			
Cable entry	Optionally from below or from behind, M25 and M32 sealing glands included (max. cable outer diameter 21 mm)			
Temperature range ***	-30 °C to 50 °C			
Dimensions	H490 x W274 x D180 mm			
Weight	6 kg		3,8 kg	
Authentication	RFID (ISO 14443); QR-code (from the charging station operator/backend)			
Modem	4G/3G/2G	none	4G/3G/2G	none
Network	Ethernet 10/100 Mbit			
Protocol	OCPP 1.5/1.6 SOAP/JSON			
Interfaces	1x RJ45; 1x USB-2.0-Micro-B; 2x USB-1.0/2.0-Type-A			
Load management	Modbus TCP/IP, defined total power or root meter TCP/IP			
Max. charging points load mgmt.	250 (see page 2)			

* At maximum power depending on single-phase or three-phase mains connection.

Setting of charging current/power can be made on site.

** With three-phase mains connection and maximum charging current.

*** In case of overtemperature inside the housing, the charging station automatically reduces the charging current and, if necessary, terminates the charging process for safety reasons.

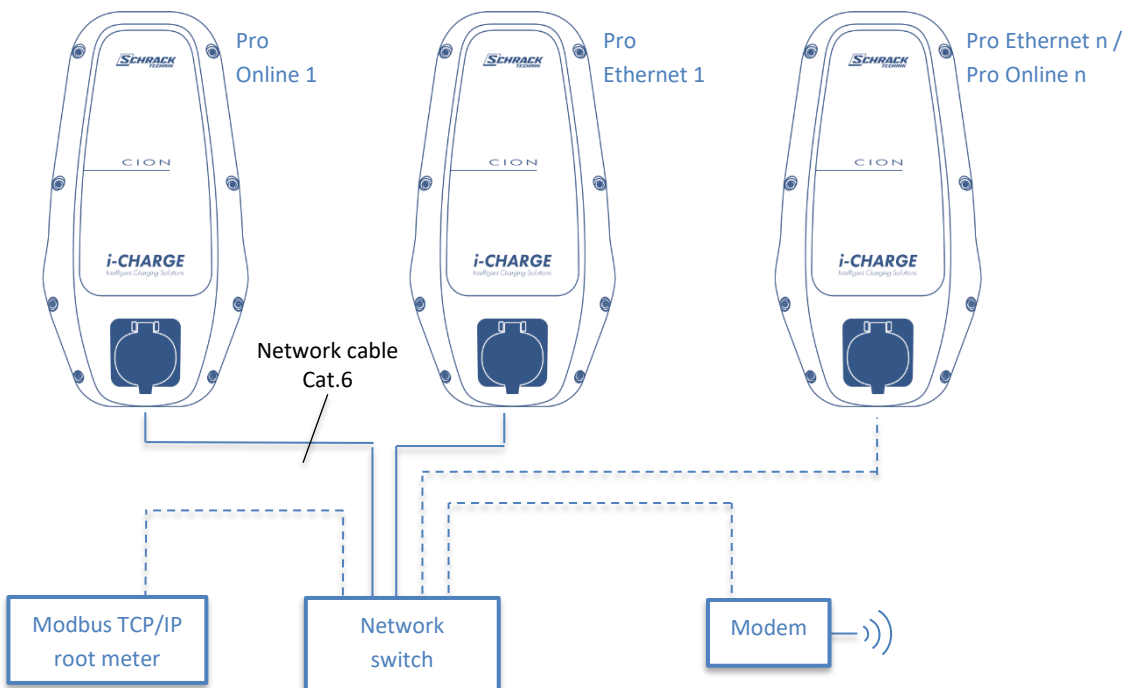
ACCESSORIES

- 2x ®Fischer DUOPOWER set of stainless steel (each consisting of 2 dowels + 2 countersunk head screws)
- 4x Sealing washer
- 4x Rubber cover cap
- Cable sealing gland: M20, M25, M32 one piece each
- 1x Sealing step nipple for supply line from behind
- 4x Housing screws – stainless steel
- 1x RJ45 plug (can be field assembled) (order number: HSISR6SI3A)

LOAD MANAGEMENT – DLM (Dynamic Load Management)

Several charging stations can be connected to each other via Ethernet network in order to realize tasks such as an internet connection, load management with or without root meter. Cabling according to the daisy-chain principle (loop-through) is not possible.

Any combination of CION Pro Online (EMCIONP2xO) and CION Pro Ethernet (EMCIONP2xE) is possible.



Example image – Network wiring i-CHARGE CION Pro

One of the CION Pro's in the network must be defined as a "DLM Master with internal DLM Slave", which takes over the load management tasks. All remaining CION Pro's must be defined as "DLM Slave".

Up to 250 charging points can be operated in a DLM network. However, it is recommended to form smaller DLM networks of approx. 25-50 charge points to ensure a smaller failure rate in case of any failure. An optional stand-alone load management charge controller can also be used, which can be positioned in the distribution board at the root. This has an external RS485 Modbus RTU interface to allow common Modbus root counters to be used.