

Field of application and characteristics

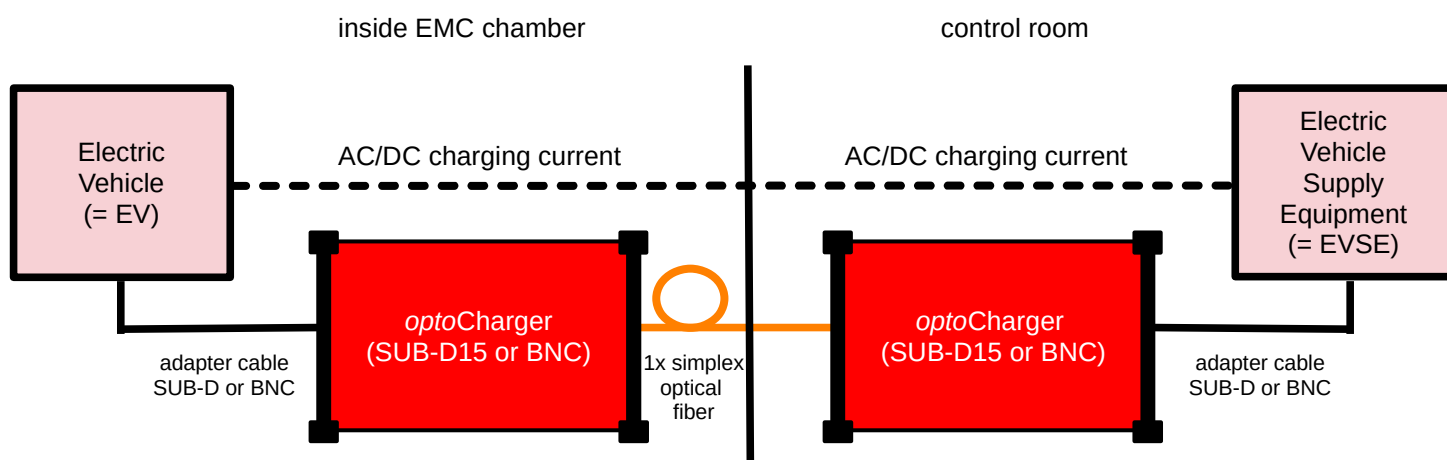
The **optoCharger** system is a bidirectional optical transmission device that transmits communication data between an Electric Vehicle Supply Equipment (= EVSE), i.e. charging Station, and an Electric Vehicle (= EV).

It consists of two battery supplied devices that are connected to each other via an optical fiber. With the optical transmission and the shielded case, this system is suitable for the high requirements during automotive EMI and EME tests (for example CISPR 25 Class 5).

Please note: Not all charging standards and additional features are implemented yet.



Application



Technical data

Charging standards:	CCS, CHAdeMO, GB/T
Data signal interfaces:	Control Pilot (PLC), CAN, Low-Level Signals, additional signals (e.g. temperature monitoring and connector/inlet lock signal)
Data direction:	bidirectional
Input (Transmitter):	BNC connector (for Control Pilot), D-SUB-15 female (for all other signals)
Output (Receiver):	BNC connector (for Control Pilot), D-SUB-15 female (for all other signals)
Power supply:	integrated batteries 4 Ah, consisting of 7x NiMH cells, 8.4 V operating time with fully charged batteries: approx. 10 h operating time can be extended with an external battery pack
Charging connector:	Binder 712 or push-pull 12 mm PP12 (9 mm PP9 on request)
Housing:	anodized aluminum with rubber protectors (stackable) 140 mm x 86 mm x 65 mm 4 mm connector for grounding

Sales Partner:



ABSOLUTE EMC LLC.
Covering sales in North America
United States, Mexico, & Canada

absolute-emc.com
Phone: 703-774-7505
info@absolute-emc.com

Weight:	approx. 760 g
Optical connector:	1x FSMA / simplex multimode fiber 62.5/125 µm, 850 nm, OM1

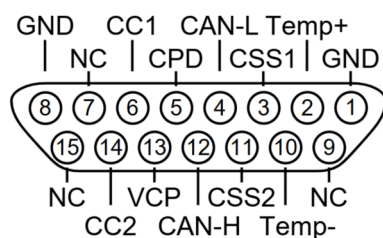
Scope of delivery

- 1x optoCharger Transmitter (EV)
- 1x optoCharger Receiver (EVSE)
- 1x 20 m simplex multimode optical fiber
- 2x charger for the integrated batteries, AC plug types available: A(US), C(EU), G(UK) and I(AUS)

Accessories

Optical fiber - types:	FSMA, ST, FC, LC, E2000 (combinations possible), 62.5/125 µm or 50 µm
Optical fiber - lengths:	0.5 m – >100 m
Optical fiber - feedthrough	FSMA/FSMA, ST/FSMA, ST/ST, FC/FC
Optical fiber – cleaning:	Fiber optic cleaning set
Optical fiber - protective caps:	protective cap/cover for male FSMA optical fibers captive cap/cover for male FSMA optical fibers
Optical connector - protective caps:	protective cap/cover of FSMA optical input/output of mk devices captive cap/cover of FSMA optical input/output of mk devices
External battery pack BP84:	for run time enhancement of the device in the EMC chamber 4 Ah or 10 Ah (high capacity charger needed for 10 Ah batteries)
Power supply PS120:	for constantly powering the device in the control room

SUB-D Connector:



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