

Alfen D'leteren -line

Specifications

3 phase	✓
RFID card reader	✓
RGB LED	✓
Display	-
Energy meter	✓
Max. 6mA DC detection	✓
Mobile network communication	✓
Ethernet/LAN dedicated network connection	✓



General product specifications

Number of outlets	1
Types of outlets	Fixed cable Type 2 socket, in accordance with IEC62196-2 Type 2 socket shutters, in accordance with IEC62196-2, ed. 2
Supported power systems	TN-S, TN-C-S, TT, IT *
Nominal output voltage (+/- 10%)	230V, 1-phase products 400V (3x230V), 3-phase products
Maximum design current	32A per phase
Maximum design power	22kW, 3-phase products
Connection clamps	Cable gland, clamping range for 14-25.5mm cable thickness Cable clamps on input filter block. Range: · 10mm 2 per vein: solid (VD) wire · Max. 6mm 2 per vein: stranded (VDS) wire with ferrules
Activation relay	Integrated, simultaneous activation Extra safety relay in series
Overcurrent protection	Integrated in firmware; shutdown at: 105% after 1,000 seconds; 110% after 100 seconds; 120% after 10 seconds; 150% after 2 seconds.
Residual current protection	Integrated 6mA DC leakage current detection Response time: 1-5 seconds
Available in- and outputs	RJ45 (Ethernet/LAN) RJ11 (active load balancing)

Communication and protocols

Controller	Central unit for charging currents and communication
Vehicle communication	Mode 3 in accordance with IEC 61851-1 ed. 3 (2017)
Internet/networking possibilities	Mobile network communication, Ethernet/LAN
Communication protocol Central System	OCPP 1.5 (JSON), OCPP 1.6 (JSON) `
Supported RJ45 protocols	OCPP TCP/IP
Supported RJ11 protocols	DSMR 4.0-4.2 and SMR5.0 (P1 port) I/O for supporting external relay
Modbus (Master)	TCP/IP

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Information safety

SIM card	Mini SIM card APN username and password
Central System authentication	TLS 1.2 x509 2048/4096 bit root certificate
EVSE authentication	HTTP Basic authentication, with or without TLS
Remote console access (SSH, telnet)	Not supported
Diagnostic files	Encryption: AES 128 bit
Firmware update files	Encrypted and digitally signed Encryption: SHA256 hash (pkcs1/PSS padding with 2048 RSA key) Signature: RSA public key 2048 bit
EVSE Internal Flash	AES 128 bit (erased when read)
Root certificate	Installed in the factory, update through UpdateFirmware file

Available memory

Charge passes	Local list: approx. 800 charge passes (via the Backend) White list: approx. 1,200 charge passes (local)
Transaction database	Approx. 1,500 transactions (of 4u with 15min Wh-metering values)
Logging for diagnostics	Approx. 45,000 lines

User circumstances

Operating temperature Relative	-25°C - 40°C
atmospheric humidity Electrical	5 - 95 %
safety class	I
Degree of protection (casing) IK	IP55
protection (mechanical impact)	IK10
Stand-by use	Approx. 3.5 - 3.8W

Casing

Type Mounting	Wall-mounted unit
options Material	Wall mounting or mounting post (accessory)
Colour	Polycarbonate, UV resistant and flame retardant
Locking	Grey
Dimensions (H x W x D)	Torx T20 screws
Casing Packaging (models with socket)	370 x 240 x 130mm
Packaging (models with charging cable)	460 x 315 x 250mm 480 x 340 x 360mm
Weight	
Casing	Approx. 4 kg
Total, incl. packaging	Approx. 4.5 kg