

# technagon

advanced charging e-xperience

# P80

impressing  
& unique



COMPLIANT WITH  
CALIBRATION LAW

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## Technagon P80 charging station

■ impressive ■ unique ■ multimedia ■ high-quality ■ flexible ■ durable

The Technagon P80 is a flexible, convenient and very special AC charging station for public and semi-public areas with a high-quality, integrated advertising display. The Technagon P80 can be mounted on our prefabricated foundation in just a few simple steps. It is resistant enough to withstand weather conditions and vandalism and has two charging bays each with a 4.3" display for the best charging convenience. In addition, a 46" display for information, presentation and advertising is integrated at the highest level. The charging station can be connected directly from below, which are connected to the RCD.

The innovative solution for dealing with calibration law conformity is ingenious.

[technagon.de](http://technagon.de)

## features & functions

- area of application: public and semi-public areas | high-traffic places
- digital billboard 46" – screen size
- new solution in the area of calibration law conformity, the charging module as a closed unit
- compliant with calibration law (ERK) or MID-compliant (optionally) – also available with spiral charging cable
- simple connection to terminals | connection from below through an empty pipe
- OCPP1.6-capable for optimal connection to backend systems
- design: high-quality, powdered aluminum housing | Color housing: complete DB701 | lateral loading bays and LED toppers in RAL9005 | special colors on request
- status display: LED topper with color and flashing codes for status indication
- function display / operation: 4.3" display and RFID reader for each charging point
- KfW eligible
- assembly on the ground | finished foundation or self-constructed foundation according to the plan
- extremely service-friendly thanks to the compact, closed charging module
- available with a variety of options and accessories, directly configurable as required
- credit card terminal as an option or can also be retrofitted (small effort)

## main areas of application

The Technagon P80 is created as an extraordinary charging station for charging electric vehicles and for the high-quality and very attractive presentation of advertising and information content. With the optional integrated payment terminal, the P80 serves as the hub of your complete charging environment. The P80 is ideal for use in public and semi-public areas.

## highlight

The unique charging unit opens up completely new possibilities in charging technology. It is a revolution in terms of service, the simple scope with calibration law and also in terms of user-friendliness. This Charging Unit is based on a great deal of experience, a high level of innovation and the need for convenience for operators and service. The powerful Technagon charging controller is the core of the device.

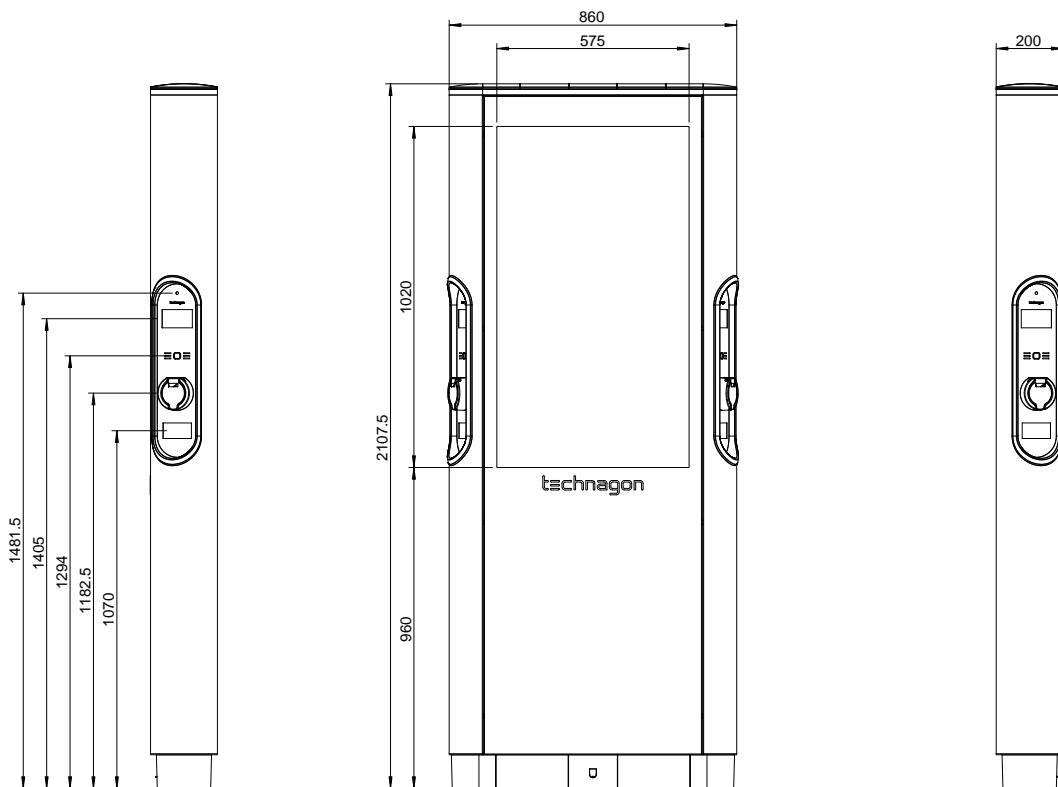


## description

The Technagon P80 charging station is equipped with two charging points, two vehicles can be charged at the same time. As an option, the P80 can be supplied with attached spiral cables and this even conforms to calibration law.

Our intelligent load management ensures that the charging power is optimally distributed to all electric vehicles to be charged. This is done via OCPP or via local connections.

## dimension (mm)



## base variant



compliant with calibration law



with AGK (attached cable) as an option



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Each model compliant with calibration regulations (ERK) as standard;  
Optionally available MID-compliant

## technical information

### features and functions

authentication	via RFID cards (ISO 14443) MIFARE Ultralight, Classic or DESfire
display	4,3"– color display per charging point
charging processes	according to IEC 61851 "Mode 3", charging current regulation, optional loading information via OCPP
charging ports	2x IEC 62196 type 2 charging socket plug lock 2x attached cable type 2 (charging ports can be combined) *max. 2 x 22 kW in parallel (max. 32 A per charging point) (* simultaneity factor 0.9) Emergency unlocking in the event of a power failure

### mechanical execution

dimension	2107 x 860 x 200 mm (H x W x D)
weight	depending on the version 138-145 kg
operating temperature range	-25 °C to +50 °C*; temperature derating
Installation site	≤ 2,000 m (height above sea level)
Relative humidity	5 to 95%, non-condensing
mounting type	floor mounting on concrete foundation   ready-to-use foundation available
handling	service-friendly design and good component accessibility
protection against vandalism	IK10 charging pillar
protection class	IP54

\* 24 h ≤ 35 °C

### electrical version

power connection	power connection: 3P+N+PE, max. 5 x 35 mm <sup>2</sup> , nominal voltage: 230/400 VAC, 50 Hz, rated current: max. 63 A, all-pole disconnection by fuse switch disconnecter 63 A
security	main switch: fuse switch disconnecter 3P+N; fuses per charging point: 3x32 A (on power board) RCD type A per charging point with additional DC residual current monitoring optional: AC/DC sensitive residual current circuit breaker, RCD type B, 30 mA temperature derating; contactor glue detection
lightning and surge protection	optional combination arrester Cat. 1+2+3 optional combination arrester for data line



## technical information

### electrical version

load management	static load management, dynamic load management (local & OCPP)
specific features	i-MiEV-recognition, Mode-3s-recognition
status indicator	LED status display integrated in topper element (remote visibility) error detection through different flashing codes
calibration law	calibration law conformity, optionally available MID-conform
energy meter	top-hat rail counter calibration law-compliant, optionally available MID-conform
advertising	2x schuko socket for computer and display connection

### connectivity

surveillance	monitoring and diagnostics per OCPP1.6 (OCPP 2.0 in preparation)
remote maintenance and remote update option	extensive remote maintenance option via OCPP remote update possibility of the software
web interface	The most important parameters required for individual operation can be configured via the Technagon web interface.
external IT systems	connection via GPRS, UMTS, LTE, Ethernet port
advertising/representing	video and image playback on the display with playlist function data distribution via FTP or locally via USB

### advertising

display data	screen size: 46" (1018,08 x 572,67) dimensions: 1044,1 x 598,7 x 36,4 (H x W x D) screen resolution: 1.920 x 1.080 pixel uptime: 24/7 surface luminance: 2.500 cd/m <sup>2</sup> operation mode: normally black frame rate: 60 Hz
Multimedia-PC	in preparation

### billing and customer management

billing	by means of signed, calibration law-compliant data records via OCPP
calibration law-compliant long-term storage	local und physically accessible storage of charging data over 8 years using a SD card
customer management	via OCPP or local whitelist (csv import) optional payment option by Giro-e (EC card)

## technical information

### norms

loading processes	IEC 62196-2, VDE-AR-E2623-2, IEC 60309, IEC 61851-1
security	IP44 / IP 54 according to IEC 60529, protection class 1 according to DIN EN 61140, CE „Class A“ according to EU Directive 2004/108/EG, DIN EN 55022, DIN EN 61439-1

### shared backends

HTB – Has To Be, ENIO, Driivz, Smartlab, ChargeCloud, Virta, Swarco ARGOS, NTT Data, E-Car OC

subject to technical changes

## basic version

article no.	description
40069.170	P80 charging station with multi-media display; semi-public and public areas; compliant with calibration law; 2 charging points

## options

article no.	description
40069.149	charging points MID compliant
40069.150	attached cable (permanently installed cable – no own cable necessary)
40069.152	double terminal (up to max. 35 mm <sup>2</sup> ) (mains connection terminal with which another charging station can be supplied in parallel)
40069.153	backend configuration
40069.155	RCD type B per charging point (all-current sensitive residual current device)
40069.156	DIN rail connector Cat.6A (Ethernet connection)
40069.157	DEHNpatch surge arrester (Ethernet connection)
40069.158	EVU contact (I/O-Port for possible requirements from energy suppliers)
40069.159	surge protection combined arrester Cat I+II+III
40069.160	4G modem (cellular modem)
40069.161	direct payment system via Giro-e (EC card) Business account with billing partner GLS Bank required separately
40069.177	Credit card terminal instead of a charging point

## equipment

article no.	description
40069.171	ground anchor for on-site foundation
40069.139	ready-to-use concrete foundation according to manufacturer specifications
40069.296	Service kit for charging module

## on demand

article no.	description
40069.172	in customized RAL colors
40069.154	factory foiling