

# technagon

advanced charging e-xperience

# P40

flexible  
& ingenious



COMPLIANT WITH  
CALIBRATION LAW

status 09/2022



## Technagon P40 charging station

■ flexible ■ innovative ■ user-friendly ■ high-quality ■ service-friendly ■ ingenious

The Technagon P40 is a flexible, convenient and very high-quality AC charging station for public and semi-public areas. The Technagon P40 can be mounted on a prefabricated foundation in just a few simple steps. With a very attractive design, the P40 is resistant enough to withstand weather conditions and vandalism. It has two charging bays each with a 4.3" display for maximum comfort. It can be connected directly to transfer terminals, which are connected to the RCD from below.

The innovative solution for dealing with calibration law is ingenious.

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

## features & functions

- areas of application: public and semi-public areas
- new solution in calibration law conformity, the charging unit as a closed part
- extremely service-friendly thanks to the compact, closed charging module
- compliant with calibration law (ERK) or MID-compliant (optionally) – also available with spiral charging cable
- simple connection to terminals | connection possible from below through an empty pipe
- OCPP1.6-capable for optimal connection to backend systems
- design: high-quality, powder-coated aluminum housing | housing colour: complete DB701 | side loading bays and LED toppers in RAL9005 | special colors on request
- status display: LED topper with color and flashing codes for status indicator
- function display / operation: 4.3" display and RFID reader for each charging point
- KfW eligible
- installation on the floor | ready-made foundation as an accessory or self-constructed foundation according to the plan
- 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 P40 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

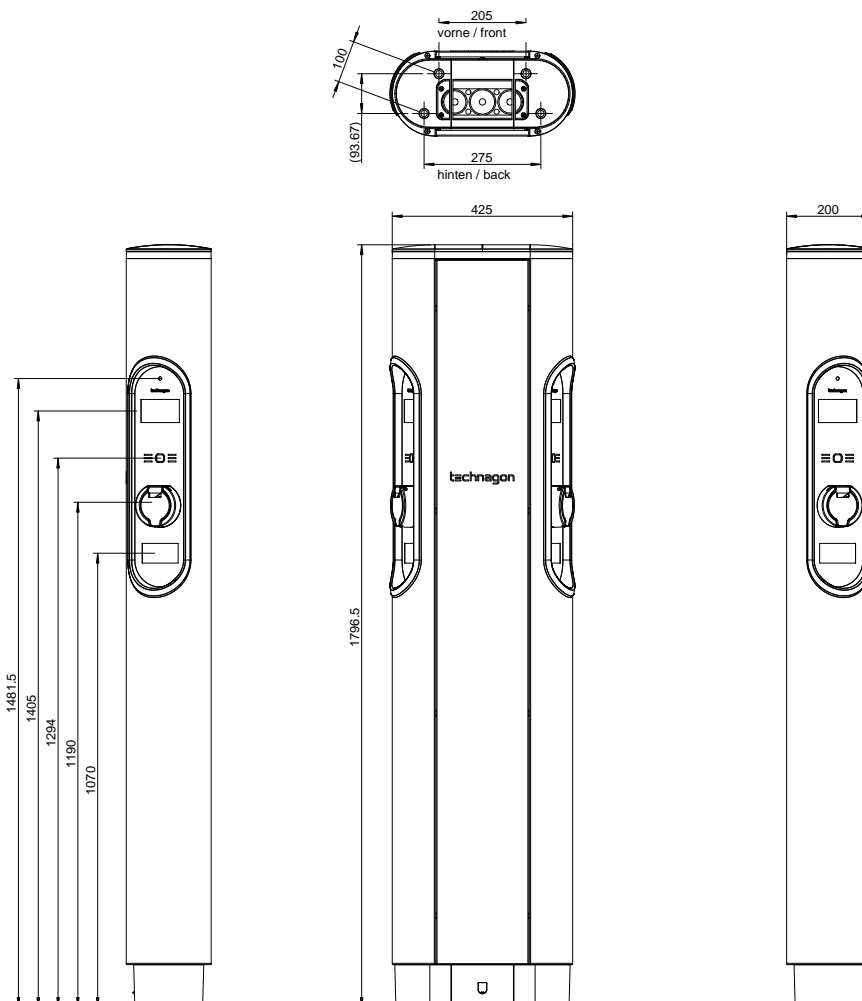
The Technagon P40 charging station is equipped with two charging points, two vehicles can be charged at the same time. As an option, the P40 can be supplied with attached spiral cables and this even conform to calibration law.

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.

The clear 4.3" display ensures user-friendliness, an excellent overview of all necessary data such as price (for payments with a giro card), charge status and charging time. The housing made of high-quality, powder-coated aluminum offers excellent protection against the effects of the weather and vandalism. Some options such as overvoltage protection, LTE connection, direct payment system, etc. can be integrated directly ex works.

All standard versions of the P40 currently meet the requirements of calibration law. In addition, a KfW subsidy is possible.

## dimension (mm)



## base variant



compliant with calibration law



with AGK (attached cable) as an option



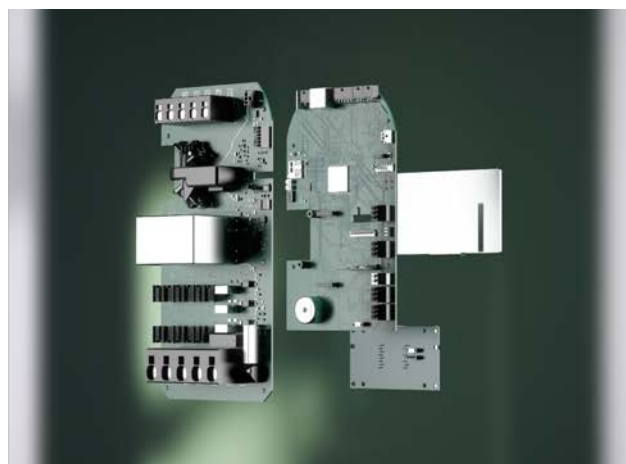
**COMPLIANT WITH CALIBRATION LAW**

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 and temperature derating) Emergency unlocking in the event of a power failure



## technical information

### mechanical execution

dimension	1797 x 425 x 200 mm (H x W x D)
weight	depending on the version 48 – 55 kg
operating temperature range	-25 °C to +50 °C
protection class	IP54
mounting type	floor mounting on concrete foundation   ready-to-use foundation available
handling	service-friendly design and good component accessibility
protection against vandalism	IK08 charging socket, IK10 pillar

### electrical execution

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, internal shutdown by fuse switch disconnecter (63 A)
security	main switch: fuse switch disconnectors with fuses 3P+N; Neozed D02 63 A fuses per charging point: 3x32 A (on power board) RCD Typ 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 transfer module with lightning protection for data line
load management	static load management, dynamic load management (local and via 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
standby consumption	approx. 20 Watt

### 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

### billing and customer management

billing	by means of signed, calibration law-compliant data records via OCPP
calibration law-compliant long-term storage	local and 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

charging processes	IEC 62196-2, VDE-AR-E2623-2, IEC 60309, IEC 61851-1
security	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 backend

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
40069.165	charging station; compliant with calibration law; semi-public and public areas; 2 charging points

## options

article no.	description
40069.149	on request: 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
40069.234	Credit card terminal additionally integrated into the charging station

## equipment

article no.	description
40069.162	ground anchor plate for on-site foundation
40069.163	ready-to-use concrete foundation according to manufacturer specifications

## on demand

article no.	description
40069.164	in customized RAL colors
40069.154	factory foiling