technagon

advanced charging e-xperience

W40

practical & great

COMPLIANT WITH CALIBRATION LAW

Technagon W40 Wallbox AC

■ made in Germany   ■ ERK compliant   ■ modular   ■ service-friendly   ■ compact

The Technagon W40 is a standard compliant, high quality and future proof AC wall box with 2 charging points for public and semi-public areas. The modular concept with separately certified charging module offers decisive advantages in dealing with the issues of service and calibration law. Technagon's charging solutions are "engineered and made in Germany". At the heart of the development is the fifth-generation integrated charging controller.

The compact Technagon W40 is ideally suited for use in parking garages. The wallbox can be mounted either on the wall or on the Technagon design stele. By installing 2 wallboxes on one stele, 4 charging points are available in a very small space.
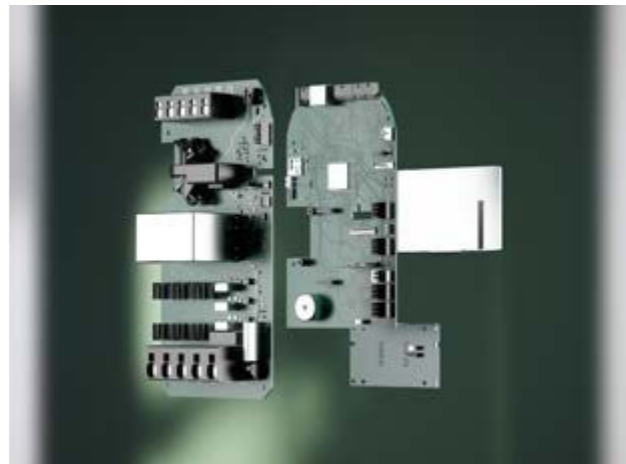
technagon.de

features & functions

- Charging station with 2 charging points for public and semi-public areas
- max. charging power: 44 kW (2 x 22 kW) I configurable by electrician
- KfW eligible
- compliant with calibration law (ERK) or MID-compliant (optionally)
- unique, modular concept enables easy handling of service and calibration issues
- ethernet connection (LAN) standard | additional 4G modem (cellular modem) possible as option
- OCPP1.6-capable for optimal connection to backend systems
- available with attached charging cable (spiral cable)
- Plug release in case of power failure
- use of sustainable and weather-resistant materials
- powder-coated aluminum housing - colour: complete DB701 I side loading bays and LED toppers in RAL9005 I individual design possible through foiling
- lockable front panel with profile half cylinder
- LED topper with color and flashing codes for status indicator
- 4.3" display and RFID reader for each charging point
- intuitive and language-independent user guidance
- Visualization of all important data for a transparent loading process
- Charging station directly configurable as required with a wide range of options
- Integration of a universal payment terminal (credit card, Girocard, RFID or fleet cards)
- Load management can be implemented in various stages
- easy connection to terminals | 360° cable feed possible
- Mounting on the wall or on the optionally available Technagon design stele
- Prefabricated foundation available as option

versatile due to modularity

unique and innovative design

universally applicable

certified according to calibration regulations

intuitive operation on the color display

revolutionary service concept

symbolic and language independent

In-house charging controller integrated

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.

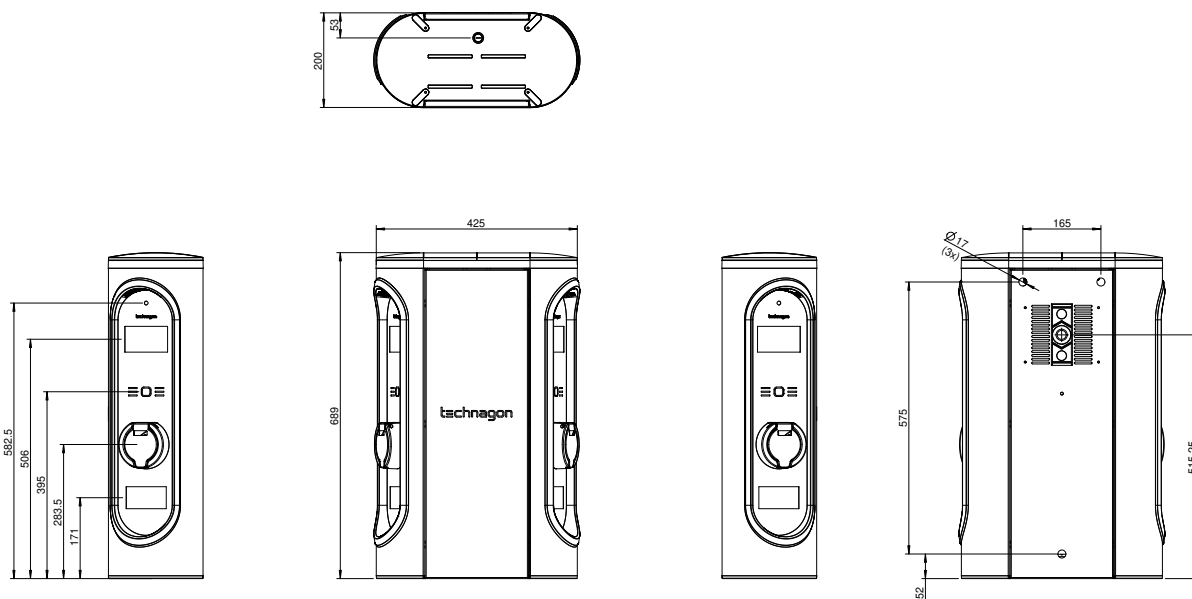# base variant

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

dimension (mm)

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	689 x 425 x 200 mm (H x W x D)
weight	depending on the version 20-27 kg
operating temperature range	-25 °C to +50 °C
Installation site	≤ 2,000 m (height above sea level)
Relative humidity	5 to 95%, non-condensing
mounting type	wall mounting with mounting kit	floor attachment with stele
handling	service-friendly design and good component accessibility
protection class	IP54
protection against vandalism	IK10

technagon

technical information

electrical version

power connection	power connection: 3P+N+PE, max. 5 x 16 mm² copper nominal voltage: 230/400 VAC 50 Hz rated current: 63 A back-up fuse: max. 63 A (on site)
security	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
load management	static load management, dynamic load management (local & 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 avaiblable 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	Standard ethernet connection (LAN) and as option 40069.160 via GPRS, UMTS, LTE

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)

norms

charging processes	IEC 61851-1
Connections	IEC 62196-2, VDE-AR-E2623-2, IEC 60309
security	IP 54 according to IEC 60529, IEC 62955, IEC 61439-1, IEC 61439-7, protection class 1 (with protective earth), CE "Class A" according to EU Directive 2014/30/EU
callibration law	REA document 6-A, PTB requirement 50.7

technical information

shared backend

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

subjecr to technical changes

basic version

article no.	description
40069.175	AC Wallbox; semi-public and public areas; compliant with calibration law; charging points

options

article no.	description
40069.150	attached cable (permanently installed cable – no own cable necessary)
40069.153	backend pre-configuration
40069.155	RCD type B per charging point (all-current sensitive residual current device)
40069.157	Surge arrester DEHNpatch (Ethernet connection)
40069.174	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, additionally integrated into the charging station or separately)
40069.332	foiling Technagon W40

equipment

article no.	description
40069.144	design stele one-sided
40069.415	design stele double-sided
40069.163	ready-to-use concrete foundation according to manufacturer specifications
40069.297	foundation anchor W40 (with stele)
40069.296	temporary cover charging module