

The new third-generation controller: elexon leads the way with new technology

elexon charging stations with a new controller for ISO15118-2 and OCPP 2.0.1

The new third-generation controller from elexon enables a future-oriented and especially comfortable charging infrastructure. The controller uses the OCPP 2.0.1 communication protocol and meets the technical requirements for vehicle charging according to ISO15118-2. Fleet managers, mobility managers and entrepreneurs will benefit from the increased comfort in everyday charging. The new Controller 3 is embedded in elexon's tried and tested hardware with a modular design. elexon continues to offer hardware and software from a single source with state of the art technology.

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- **elexon is one of few providers already offering charging columns with the new controller technology**
- **Single-source charging station hardware and software „Made in Germany“**
- **Hardware upgrades for charging stations with first or second-generation controllers possible**

New technology provides more charging comfort

The new Open Charge Point Protocol OCPP 2.0.1 is an important building block for the development of a sustainable charging infrastructure. Communication between charging points and charging infrastructure is made much easier, the charging process can be controlled more precisely, user-independent billing is possible, plug-and-charge becomes a reality - provided a compatible backend is used. To take advantage of these benefits, business owners, fleet managers and mobility managers must rely on future-oriented charging solutions and that means charging solutions already equipped for the international ISO15118-2 standard and implemented with the OCPP 2.0.1 charging point protocol. Although currently only a few vehicle manufacturers are offering an update to the new communication protocol for their vehicles, this standard will be everywhere within the next few years. Anyone expanding or building their charging infrastructure now should think about installing a solution that ensures maximum convenience and efficiency in the long run. The new third-generation controller meets these requirements: Ethernet connection, WiFi, Bluetooth, load management via Modbus/TCP, as well as OCPP 1.6j & 2.0.1, Autocharge for

automatic EV detection, ISO15118-2 for Plug-and-Charge and optionally with integrated LTE Cat. 4 modem. All these outstanding technical features are embedded in elexon's package: modular hardware and future-oriented software all in one. By the end of 2022, customers will be able to order AC charging stations from elexon with the new third-generation controller and profit from the advantages of the new technical ISO15118-2 standards and the new OCPP 2.0.1 communication protocol.

Hardware upgrade possible

Hardware upgrades for current charging stations are also possible. Customers that use or buy charging stations with the current first or second-generation controller (OCPP 1.6j) can upgrade to the new third-generation controller (OCPP 1.6j / OCPP 2.0.1 / 2 x ISO15118). The development of the controller and the modular charging station hardware, designed for the long term, form the basis for this special customer service. "Future-oriented planning and the inclusion of upcoming developments are part of our overall concept. Our charging infrastructure solutions must meet high standards with regard to sustainability and flexibility. Not only do our customers expect this from us, this is something that we expect from ourselves. Every detail of our hardware and software must be sustainable and state of the art", explains Marcus Scholz, Managing Director of elexon GmbH.

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About elexon

Elexon is a joint venture of SMA Solar Technology AG (SMA), AixControl GmbH and aixACCT charging solutions GmbH founded in 2019 with the goal of promoting the expansion of charging infrastructures for electric vehicles across Europe.

Elexon is a full-service provider and, thanks to the merger, now has access to all the necessary expertise from the field of electromobility. Its focus is on charging infrastructures, energy and load management, and the provision of electricity through renewable energies.

With its 360° charging infrastructure solutions, elexon offers its customers single-source, holistic plug-and-play solutions for the planning, installation and service of efficient e-vehicle charging parks.