



# MONITORING.

with GARO Futuresmart™

GARO wall boxes with G-Cloud





# When you want full control of all charging

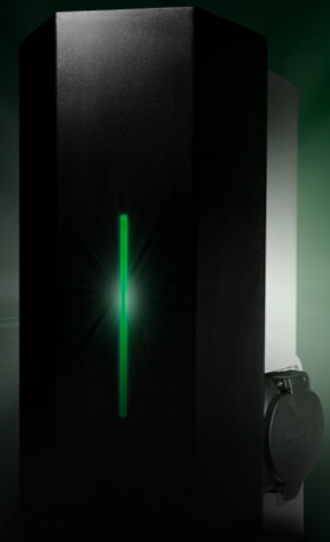
As the need increases for vehicle charging stations in apartment buildings and workplaces, you should be placing high demands on the products and services you choose to install. If you are seeking a smart, safe and sustainable solution for the future, you should be investing in charging stations that measure individual energy consumption by multiple users. Only then will you be able to take fair payment by charging a specified rent supplement or salary deduction.

## **COMBINED METERING COLLECTION**

With one or more GARO wall boxes connected to G-Cloud, you will have a high-quality charging solution with a combined metering collection service that can be broken down to the individual user, charging station and period; something that can only make both tenant-owner associations and workplaces more attractive. The system is extremely flexible, allowing you to increase or decrease both the number of chargers and users (RFID tags).

# Simple, smart and safe charging

GARO wall boxes offer smart, safe and efficient vehicle charging to apartment buildings and workplaces. GARO wall boxes have been specifically developed to withstand our Nordic climate and to comply fully with Swedish & European electrical installation regulations. The charging stations have a built-in energy meter, a requirement for receiving grants from the Swedish Environmental Protection Agency.





# The charging station of tomorrow

## **STYLISH & COMPACT DESIGN**

A stylish design that can be installed indoors or outdoors at apartment buildings and workplaces. Dimensions: W 205 mm, L 422 mm, H 124 mm

## **USER-FRIENDLY**

Simple charging with built-in personal safety protection.

## **ALL TYPES OF ELECTRIC VEHICLES**

Able to charge all types of electric and hybrid vehicles, up to 40 or 110 km per hour.

## **ONE OR MORE**

Can be installed in groups of up to 32 wall boxes.

## **SIMPLE COMMUNICATION**

Only a single communication module is required to wirelessly connect up to 32 wall boxes to the building's network. Simple control via web interface on your computer or mobile device.

## **RFID TAG**

Unlocking using an RFID tag that only allows charging by authorised users.

## **LOAD BALANCING**

Preinstalled for dynamic load balancing to adapt charging effect to current electricity consumption, so that your building's fuses are never overloaded.

## **DC ERROR PROTECTION**

Equipped with DC error protection that, together with type A RCDs, creates a cost-effective and safe installation.

## **SCHEDULE MANAGEMENT**

Scheduled charging to take advantage of differentiated electricity tariffs.

## **WALL OR POST**

GARO wall boxes are simple to install, whether on the wall or a post.

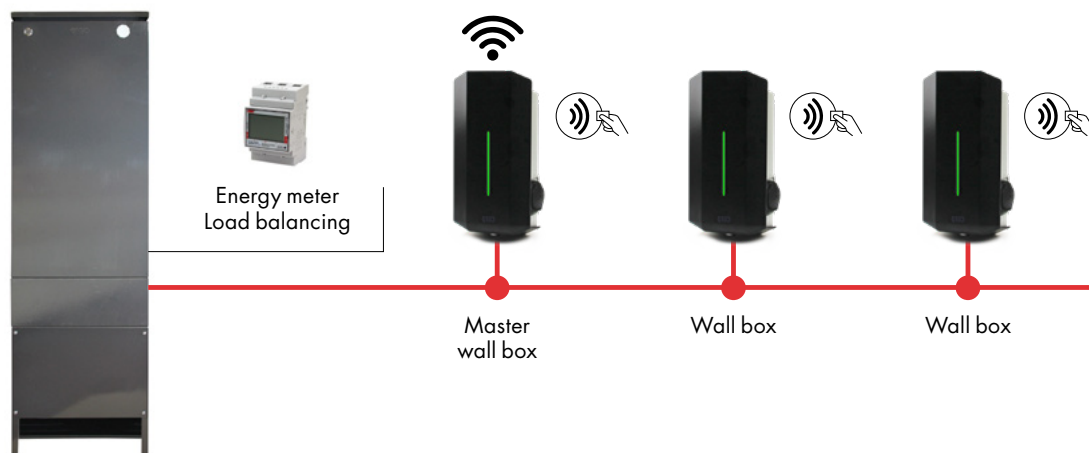
# GARO wall boxes never overload your building's fuses

Once your GARO wall box is connected to an electrical panel, its energy meter will be read in real time. The preprogrammed limit values mean that standard main fuses can cope with the charging task without the need to secure yourself with more expensive electrical grid subscriptions.

## DYNAMIC LOAD BALANCING

GARO wall boxes are equipped with dynamic load balancing "when combined with a GARO DLM meter", that senses electricity consumption of your entire building and adapts the charging effect accordingly. This means that your main fuse is never overloaded and that the charging current to vehicles can be varied between 6 and 32 amperes.

When several GARO wall boxes are connected to the same electrical panel, the wall box connected closest to the energy meter acts as the 'master charger', while the other wall boxes functions as 'slaves' based on preprogrammed limit values via the internal data link.



An aerial photograph of a two-lane asphalt road that curves through a dense forest. The scene is captured during the golden hour of sunset, with a warm, orange glow from the sky illuminating the tops of the trees and the road. A single dark-colored car is visible on the road, moving away from the viewer. The forest consists of a mix of evergreen and deciduous trees, some of which appear to be without leaves. The overall mood is serene and natural.

# The Nordic's leading supplier of vehicle charging technology

After 80 years in the industry, we have built up a level of stability and expertise that makes GARO a reliable supplier of all types of electric vehicle charging equipment. We manufacture high-quality products based on our own qualified research and development and technical expertise in the fields of software and electronics. This means that we always ensure that our future technological developments will be implementable in today's GARO products. This makes an electric vehicle charger from GARO a futureproof investment supported by reliable and knowledgeable support close to hand.

# **G-Cloud – simpler for users and property owners**

Developed in-house, G-Cloud is GARO's web-based metering collection service that we manage ourselves with updates and technical support. The service provides you with transparent charger monitoring, RFID administration, energy consumption data, user and periodic statistics, reports and payment data for GARO wall boxes.

## **INDIVIDUAL USER STATISTICS**

Each user is provided with an RFID tag permitting access to the wall boxes connected in the area. A single user (payer) may have several RFID tags linked to a group; for example, a family or department in a company. You can log in to G-Cloud as either a user or property owner. Users have access to energy consumption statistics for their own electric vehicles and the ability to manage their tags.


## **VALUABLE ENERGY MONITORING**

For property owners, G-Cloud's metrics create a specification for dividing payment between individual users. Energy monitoring of each charger, user and period also provides valuable data for evaluating the level of use and location of each wall box.





*G-Cloud measures energy consumption from each individual RFID tag while simultaneously offering the property owner complete control over the degree of utilisation of every wall box.*



**Full cost analysis based  
on individual charging  
consumption**





## **SIMPLE AND TRANSPARENT**

Those who are required to meet the great demand for charging stations in apartment buildings or workplaces understand the importance of investing in a system that allows them to charge for energy consumption in a fair manner, so that those charging their electric vehicles pay their own way. It is hardly reasonable to impose this cost on each household equally.

G-Cloud meters the energy consumed by each individual RFID tag from one or more wall boxes within the area. A monthly specification of individual charger consumption is then compiled so that payment can be debited from different accounts. In apartment buildings, consumption can be added to the rent. In the workplace, payment for charging can instead be taken out in the form of a salary deduction.



*If you would like to learn more about GARO wall boxes and G-Cloud, please contact GARO directly by telephone on +46 (0)370 33 28 00 or email [ladd@garo.se](mailto:ladd@garo.se). You can also find more information at [garo.se/e-mobility](http://garo.se/e-mobility).*

# We are GARO We are Futuresmart

GARO Futuresmart stands for innovation and products developed for the future; products that ensure energy savings, smart control and ease of use. At GARO Futuresmart, our intention is to continuously develop by creating new products, training packages, certifications, sustainability solutions, user satisfaction, service, etc. We constantly strive to make things simpler, better and smarter. For a safer, more sustainable future.

