ETREL

LOAD
GUARD

**LAYING GROUNDS
FOR A LASTING
E-MOBILITY**

LOAD GUARD

Household load (kw)

- Main fuse limit
- Household
  - without EV charging
  - with EV charging, no Load Guard
  - with EV charging using Load Guard

Load Guard monitors the local grid and sends real-time data to the charging station to retain a total load of the installation below the installation rated value.

Communicates with the user and listens to the environment.

Load Guard is a sensor installed in the building's electric cabinet where it measures the electrical currents and sends real-time data to the charging station. INCH charging station responds to received data by reducing the charging power to keep a total load of the installation below the installation rated value, or by increasing it to utilise the remaining available power for faster charging. As Load Guard measures electric current in both directions, it is capable of sensing any surplus generated by local renewable energy sources, such as photovoltaics. Green energy can be used for faster and cheaper charging, thanks to algorithms in INCH charging stations. Load Guard sensor is especially important in situations where charging stations do not have a dedicated power supply but rather share available power with other consumers in the building.

- Faster charging on existing infrastructure.
- Reduced charging and operational costs.
- Local consumption of green energy.
- Future-proof and grid-friendly charging infrastructure

USE CASES

	Home	Apartment buildings	Business fleets	Parking spaces	Commercial buildings
Load Guard	●	●	●	●	●

Dimensions	9,1 x 5,4 x 6,2 cm or 3 DIN rail slots
Clamp cable length	70 cm
Clamp diameter	Small: 16 mm Large: 24 mm
Connection	1-phase or 3-phase
Max Rated Current	150 A or 400 A per phase
Communication	Ethernet
Configuration and monitoring	INCH web interface

Load Guard sensor is delivered preconfigured, with the dedicated INCH charging station.

ETREL provides building blocks for a diverse range of e-mobility ecosystems. INCH interactive charging stations combined with OCEAN charging management software, can serve as a backbone of any e-mobility business.

40+

Countries

Etrel solutions are in use in more than 40 countries all over the world.

Scan the code and visit www.etrel.com to learn more about our company.

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