

# Quick Reference Guide

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## What is 14a Grid Control?

14a Grid Control package receives the binary command from the distribution system operator (DSO) through the FNN control box or ripple control receiver and forwards it to the ChargePoint energy management system. As soon as the signal from the DSO is received, the charging power of all active charging sessions is reduced to the level specified by the regulator. A direct connection (for example through the LAN) to the charging stations is not required.

## Before You Begin



**IMPORTANT:** You must be a licensed electrician and complete online training to become a ChargePoint certified installer. If you do not complete training, you cannot access the ChargePoint network to complete installation.

Find online training at: [chargepoint.com/installers](https://chargepoint.com/installers)

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## Accessing the Installation Guide

To ensure your safety, review the Installation Guide and familiarize yourself with the contents of each shipping box and the installation steps. ChargePoint certified installers can download the Installation Guide at: [chargepoint.com/guides](https://chargepoint.com/guides).

# IMPORTANT SAFETY INSTRUCTIONS

## SAVE THESE INSTRUCTIONS



**IMPORTANT:** Under no circumstances will compliance with the information in a ChargePoint guide such as this one relieve the user of the responsibility to comply with all applicable codes and safety standards. This document describes approved procedures. If it is not possible to perform the procedures as indicated, contact ChargePoint. ChargePoint is not responsible for any damages that may result from custom installations or procedures not described in this document or that fail to adhere to ChargePoint recommendations.

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## Product Disposal

To comply with Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE), devices marked with this symbol may not be disposed of as part of unsorted domestic waste inside the European Union. Enquire with local authorities regarding proper disposal. Product materials are recyclable as marked.



## Document Accuracy

The specifications and other information in this document were verified to be accurate and complete at the time of its publication. However, due to ongoing product improvement, this information is subject to change at

any time without prior notice. For the latest information, see our documentation online at [chargepoint.com/guides](https://chargepoint.com/guides).

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## Symbols

This guide and product use the following symbols:



**DANGER:** Risk of electric shock



**WARNING:** Risk of personal harm or death



**CAUTION:** Risk of equipment or property damage



**IMPORTANT:** Crucial step for installation success



Read the manual for instructions



Ground/protective earth

## Illustrations Used in This Document

The illustrations used in this document are for demonstration purposes only and may not be an exact representation of the product. However, unless otherwise specified, the underlying instructions are accurate for the product.

# Prerequisites for Installation

Prepare the following according to the circuit diagram:

1. Provide sufficient space with a top-hat rail for the external power supply unit (2TE) and for the router, which requires a width of 180 mm and a height of 85 mm, including LTE reception capability. If needed, install an on-site switch box with a top-hat rail to accommodate the circuit breaker, power supply unit, and router.

**Note:** A minimum LTE signal strength of -85 dBm RSSI (at least 4G) is required at the router's installation location

If LTE signal strength is insufficient, consider relocating the installation and using an optional external antenna (3-meter cable length).

If using the external antenna, drill a 10 mm hole through the outer wall for cable routing.

Mount any required antenna bracket (example, metal bracket) to the outer wall.

- Ensure all connections comply with the installation diagram and local electrical safety standards.



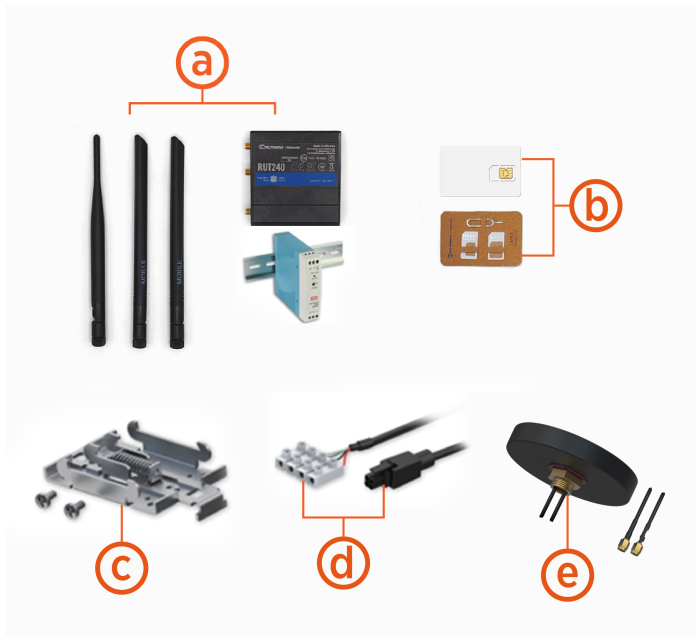
- Standard tools for mounting components inside the enclosure.
- Cables, wires, and ferrules for connecting power and signal lines.
- General tools typically required by an electrician for assembling components, including a possible enclosure for those components.
- If needed, drill a hole to route the 3-meter cable for the external antenna.

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- 1x miniature circuit breaker (MCB), 6-16 A.
- 6x feed-through terminal blocks on a DIN rail (0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>).
- A bracket, if required, for future installation of the external antenna.
- A switch box with top-hat rail, if necessary.

## Contents of the Box

The following image displays the contents of the box:



- (a) Router Teltonika including PSU Mean Well
- (b) SIM Card and Adapter
- (c) DIN Rail Mount
- (d) Power Cable with 4-way Screw Terminal
- (e) Antenna Teltonika