



EO Mini Pro User Guide

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1 Introduction

This document details the user instructions for the EO Mini Pro. It details how to use both the charger as well as the key features of the associated JuiceNet App.

Note - It is assumed that

- The User has the EV JuiceNet App installed on a smart phone or has access to the JuiceNet Dashboard - <https://dashboard.emotorwerks.com/Portal>
- The EO Mini Pro has been joined to the user's wifi network as per the EO Pro Mini Installation Manual - [EO Mini Pro - Installation Guide.pdf](#)

2 Charging a vehicle

2.1 Starting the Charge

- 1) Ensure that the EO Mini Pro is powered and that the Status LED is pulsing blue
- 2) Insert the cable into the vehicle first
- 3) Insert the other end of the cable into the EO Mini Pro
- 4) The vehicle should start to charge immediately or will charge at the scheduled time
- 5) Set the charging station configuration options using the app or dashboard – see below

When a vehicle is plugged into the EO Mini Pro, then the following summary screen is available

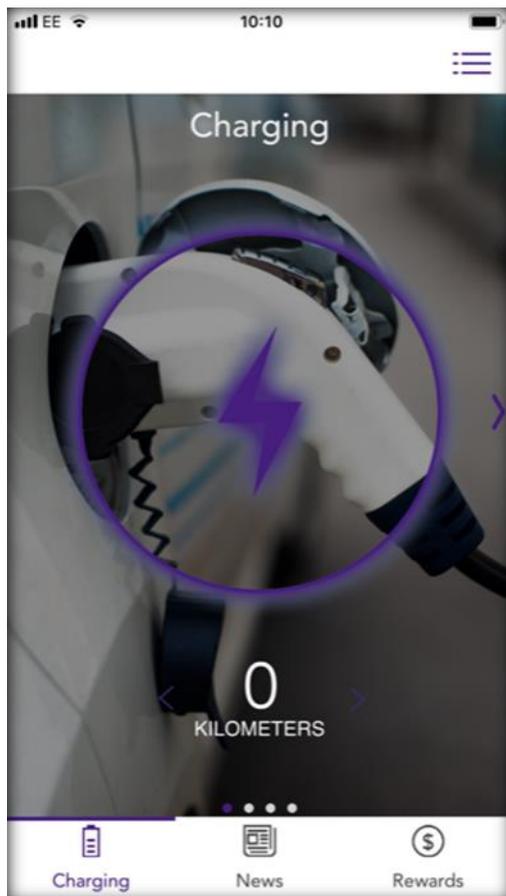


Figure 1 - Summary screen on the App

If the user swipes right then the Charging Screen is available

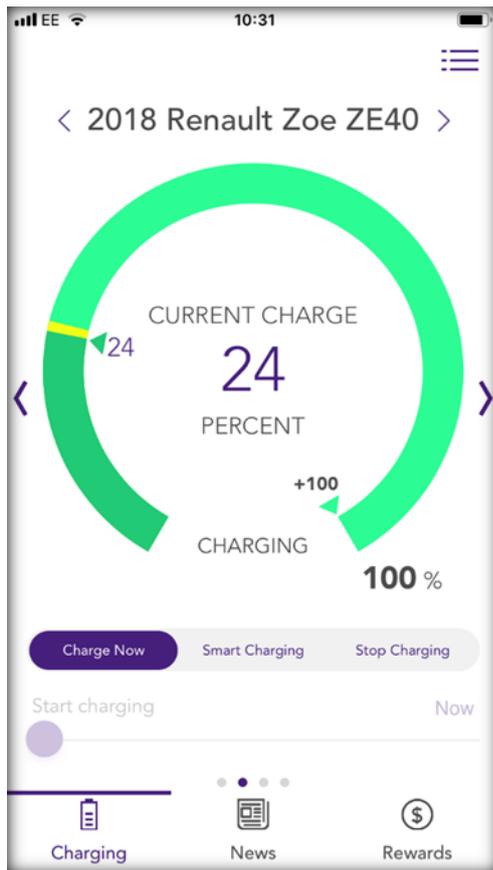


Figure 2 - The charging details

There are various options available:

- 1) Current State of Charge
 - a. In order to set the current state of charge, move the inner green triangle (showing 24 in Figure 2) to the current state of charge of the battery of the EV. This can only be done when the vehicle is plugged in.
 - b. This will allow the app to calculate how much energy and time is required to charge up the vehicle
- 2) Start Charging
 - a. Press this button to start charging immediately. This will override any Time Of Use functionality currently programmed
- 3) Stop Charging
 - a. Press this button to stop the charging session immediately (this will tell the car that no power is available).
- 4) Minimum Charge
 - a. The Orange line indicates the minimum level of charge that has been defined in the settings of the app. This is set in the settings option which is accessible from the summary screen.

2.2 Stopping the Charge

- 1) Stop the charging session from the vehicle e.g. unlock the vehicle
- 2) Remove the cable from the vehicle first
- 3) Remove the cable from the EO Mini Pro

3 Configuring the Charging Session Options using the JuiceNet APP

There are various options that can be set which can impact the charging session.

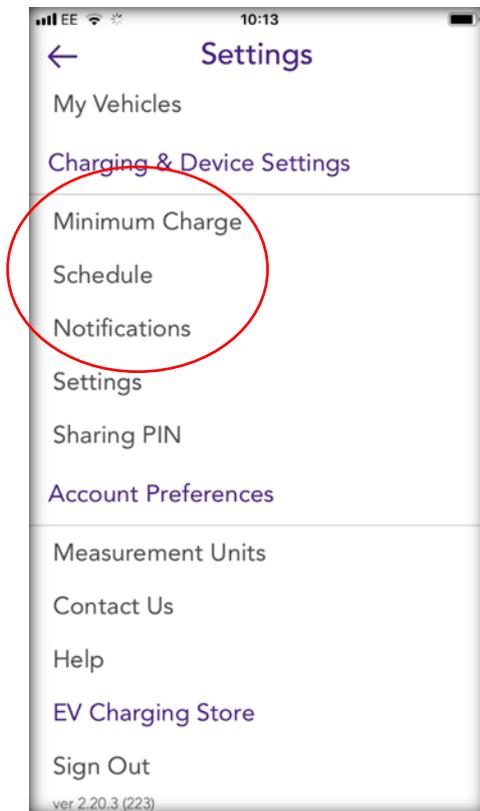


Figure 3 - Settings of the JuiceNet App

3.1 Minimum Charge

When a vehicle is plugged in, then the EO Mini Pro will charge the vehicle until the minimum charge level is reached. For example, if the minimum charge value is set to 20% and a vehicle with 10% is connected, then the EO Mini Pro will give 10% charge.

NOTE – this depends on the user defining the vehicle connected and setting the existing state of charge

3.2 Time Of Use

It is possible to configure the EO Mini Pro so that it will only charge during certain time periods. This is possible within the Time of Use section

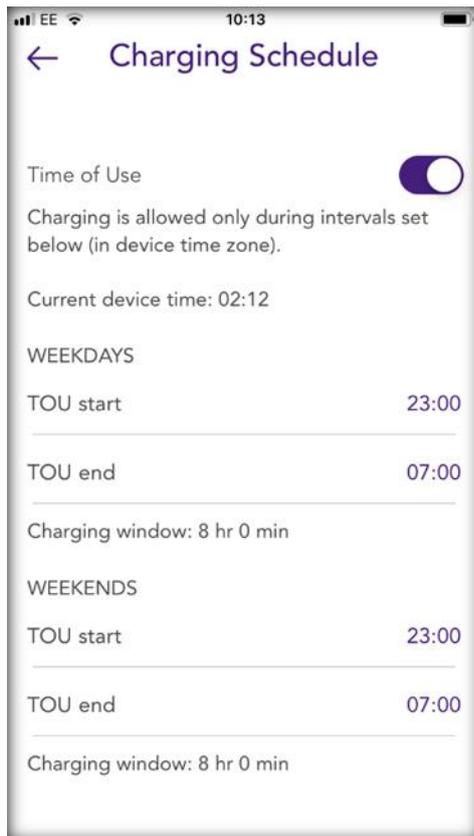


Figure 4 - Time of Use Configuration options

3.3 Notifications

It is possible to enable the JuiceNet app to send notifications on the phone or via email on the following events:

- Charging Start
- Charging Stop
- Charging delayed due to ToU
- Unit is back online
- Unit offline
- Unit is not plugged in by
 - This notification allows the user to specify a time at which to send a notification if a vehicle has not been plugged in. This can act as a reminder to plug the vehicle in before going to bed!

3.4 Settings

In the settings menu it is possible to configure certain parameters such as

- Device Name
- Maximum charging rate
- Location
- Time zone

From this screen it is also possible to reset the ownership if the unit is no longer to be associated with that user.

4 Adding another user to the Charging Station

It is possible to have multiple users control a single EO Mini Pro. Each user would need to download the EV JuiceNet App and then join to the particular charging station. It is possible for the primary user to share the Station with a secondary user using the sharing functionality:

- Primary User
 - Select Sharing Pin from the settings screen

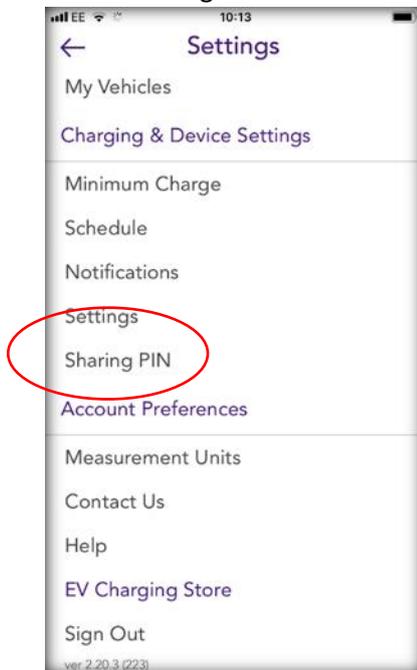


Figure 5 - Sharing Pin

- A sharing Pin Number is displayed and this needs to be shared with the secondary user



Figure 6 - Sharing Pin Number

- Secondary User
 - Select My JuiceNet Devices from the Settings Page
 - Add a New Device
 - Add a JuiceNet Device already connected to a network

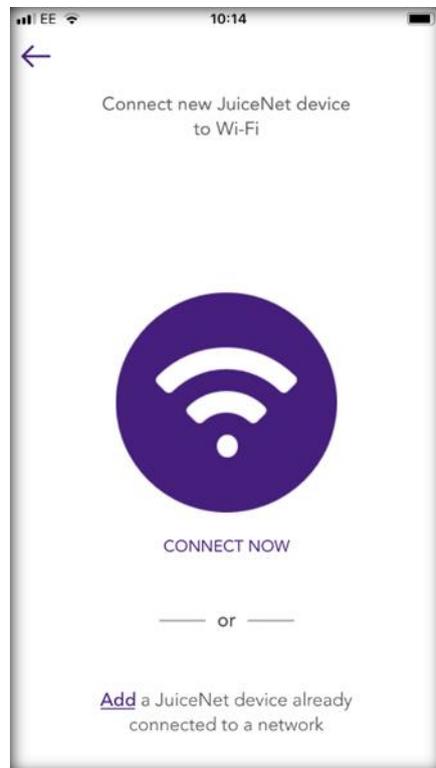


Figure 7 - joining a device already on a network

- Select the device that you wish to join and then enter the sharing pin

5 JuiceNet Portal

As well as using the app to control the charging sessions, it is possible to login into the JuiceNet Portal to perform the same functions. The details are as follows:

- [URL - https://dashboard.emotorwerks.com/Portal](https://dashboard.emotorwerks.com/Portal)

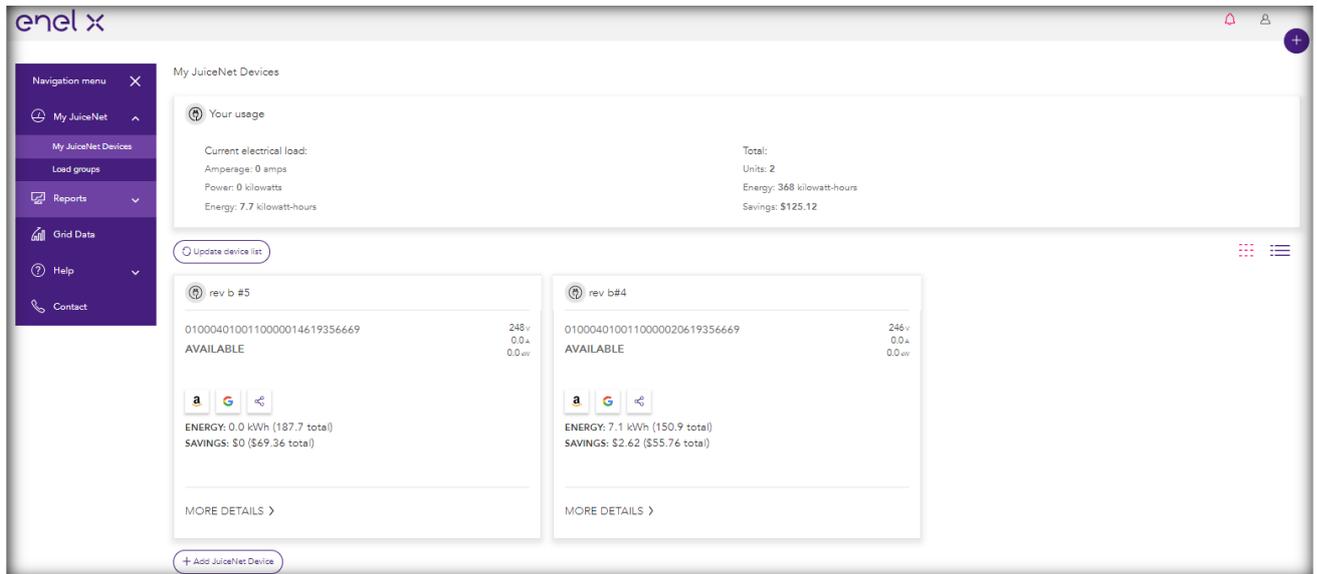


Figure 8 - The JuiceNet Dashboard

As well as performing the same functions as the app, it is possible to review additional information on charging session history and other such reports.

6 Troubleshooting

- What do the colours of the LED on the EO Mini mean?
 - The LED is an indicator of the state of the EO Mini. For more details please refer to the EO Mini and Basic LED Guide which is on the EO Resource Centre
- Is the wifi working on the EO Mini Pro?
 - Firstly, check in the app to see if the mini is connected
 - Secondly on power up of the EO Mini, a JUICENET-XXX wifi hotspot is emitted
- The EO Mini Pro is not joining the Wifi when installing a new EO Mini Pro using the JuiceNet APP.
 - Turn off the EO Mini Pro
 - Turn on the EO Mini Pro
 - Wait for the JUICENET-XXX wifi hotspot to be broadcast.
 - Join the JUICENET-XXX hotspot
 - Using a web browser, go to <http://10.10.10.1>
 - This will then present you with the option to select the preferred wifi to join
- The EO Mini keeps dropping out of wifi
 - The Signal strength of the wifi could be too weak to maintain a steady connection
 - The signal strength can be checked by turning off and on the EO Mini Pro
 - Using the app, add a new device and follow the on screen instructions
 - Join the JUICENET-XXX wifi when it is emitted
 - When the wifi options are presented then check the signal strength of the desired wifi. If it is low, then consider boosting the home wifi signal strength using a 3rd party wifi extender
- The EO Mini Pro is not re-joining the wifi
 - It could be that the EO Mini Pro is trying to join the Phone rather than the home wifi.
 - Turn off the EO Mini Pro
 - Turn on the EO Mini Pro
 - On the phone, wait for the JUICENET-XXX wifi is displayed
 - Select “forget this network” on the phone
 - Reboot the EO Mini Pro and check that it joins the home wifi

7 Further Technical Support

All EO Charging technical documentation is published in the EO Resource Centre, this is found at: <https://www.eocharging.com/service-support/> then clicking on the “Resource Centre” button

The EO Support team can be reached at:

- Email: support@eocharging.com
- Phone: +44 (0) 333 77 20383