



# An Introduction to the EO Pay

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## 1 Introduction

This document details the initial details of the EO Pay. This document is designed to give an initial overview of the product , how it operates, how it will be wired up and the type of services provided by the Nayax Portal.

Intended audience of this document are initial installers and other key stakeholders.

## 2 General Operation

Figure 1 presents the EO Pay:



Figure 1 - EO Pay Prototype

### 2.1 Basic Operation

The basic operation of the EO Pay is as follows:

- Driver arrives
- Driver connects the ev charging cable to the vehicle
- Driver connects the other end of the ev charging cable to the charging station
- Driver taps a credit card against the yellow card reader
- Driver presses the button that selects the relevant charging station (1 to 4)
- Driver taps credit card against the yellow card reader to confirm authorisation
- The EO Pay starts the charging session
- After the predefined time period the charging session stops

- The time period and price for the time period is set at the point of installation.

## 2.2 Charging Session Options

There is only one charging option with the EO Pay:

- **A fixed fee for a fixed amount of time**

The host can determine the length of time (10min, 1hr, 2hr,.....) and can determine the cost of that time period (£1, £5,...).

It is possible to have two prices within the EO Pay so that a host could set up the following scenario

- Station 1 - £5 for four hours (four hours on a 7KW could give 100miles)
- Station 2 - £5 for four hours
- Station 3 - £10 for eight hours
- Station 4 - £10 for eight hours

The Host would have to provide suitable signage detailing the pricing to the customer

## 2.3 Paying for more than one session

It is possible for the end user to pay for more than one session but it depends on when the second session is started. The EO Pay is a simple device and will simply restart its internal timer when another session is authorised. This is best explained with a couple of examples:

- Example 1
  - The EO Pay is configured for £5 for one hour
  - Driver arrives and connects the ev charging cable to the vehicle
  - Driver connects the other end of the ev charging cable to the charging station
  - Driver taps a credit card against the yellow card reader
  - Driver presses the button that selects the relevant charging station (1 to 4)
  - Driver taps credit card against the yellow card reader to confirm authorisation
    - £5 is taken for the charging session
  - The EO Pay starts the charging session
  - 10min later, the driver taps the card again and selects the same charging station
    - £5 is taken for the new charging session
  - After **70min** the charging session is stopped by the EO Pay and the driver will have been charged **£10**
- Example 2
  - Same setup as Example 1
  - Driver taps credit card against the yellow card reader to confirm authorisation
    - £5 is taken for the charging session
  - The EO Pay starts the charging session
  - 50min later, the driver taps the card again and selects the same charging station
    - £5 is taken for the new charging session
  - After **110min** the charging session is stopped by the EO Pay and the driver will have been charged **£10**

As can be seen from the example above, care needs to be taken by the user at what point the second charging session is started.

### 3 System Overview

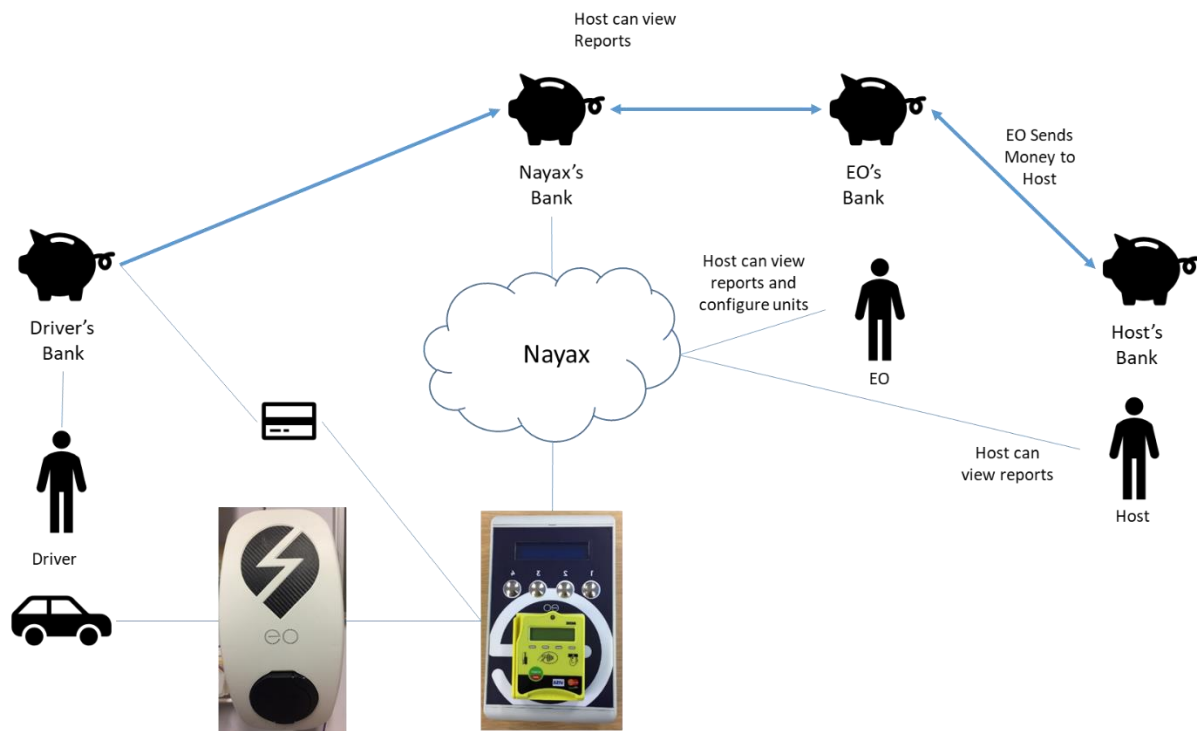


Figure 2 - System Overview

Figure 2 details the flow of money around the system with the following operation:

- 1) The driver pays for a session
- 2) Nayax take the money from the Driver's account
- 3) At the end of the month Nayax will
  - a. Take from EO the monthly subscription Fee
  - b. Transfer to EO the sum of the transactions minus Nayax transaction costs
- 4) At the end of the month EO will
  - a. Take from the Host the monthly subscription fee
  - b. Transfer to the Host their share of the transaction fees

## 4 Installation

The EO Pay is relatively simple to install but there are some details that need to be checked:

### 4.1 Cabling between the EO Pay and eoBasic

The EO Pay and the eoBasic are connected via serial cables. Each eoBasic requires a 2 core (1 TP) cable as shown below:

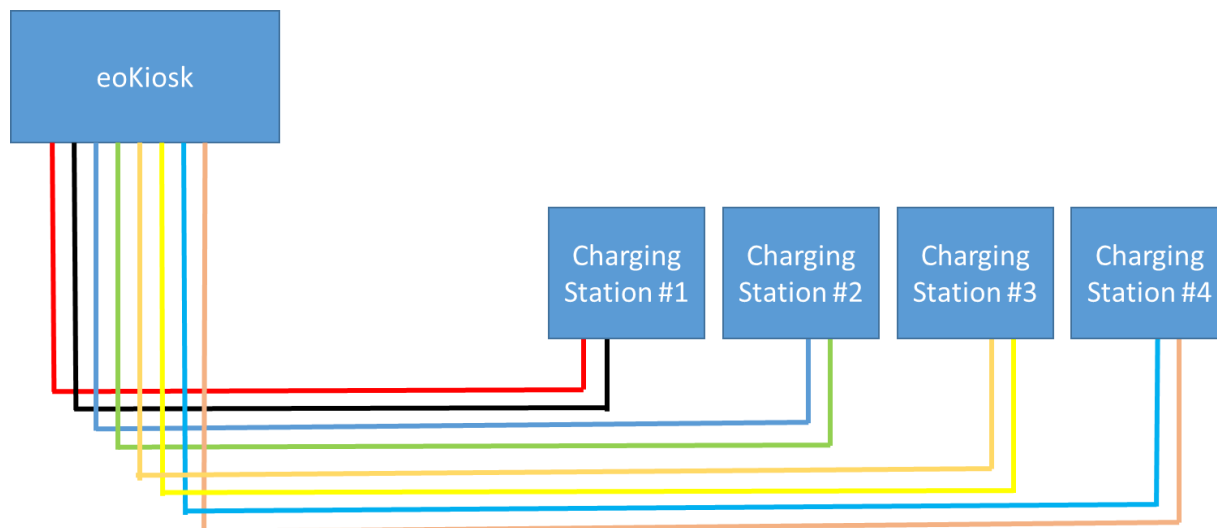


Figure 3 - wiring overview of the charging stations

The following cable is recommended:

- Belbin 9841 – LSZH 600V – [Link](#)

### 4.2 eoBasic

A special variant of the eoBasic is required. A standard eoBasic will not work with the EO Pay. The special variant will have a serial cable protruding from it as per a standard eo Genius.

- Red – Connect to EO Pay
- Black – Connect to EO Pay
- Green – not required
- White – not required

The eoBasic for the EO Pay shall be installed in the same manner as the other eo products. The relevant installation guides are found in the Resource Centre of the eo webstie – [www.eocharging.com](http://www.eocharging.com)

The eoBasic shall have a locking socket. It has been suggested that the site's host install a simple keysafe next to the kiosk where a standard radiator key is located. This would enable a customer to be able to remove the cable in event of a failure.

### 4.3 EO Pay

The EO Pay shall be powered by a standard mains supply rated at 5A.

The earth connection should be the same as the charging stations.

Each eoBasic needs to be connected to the EO Pay in the following manner:



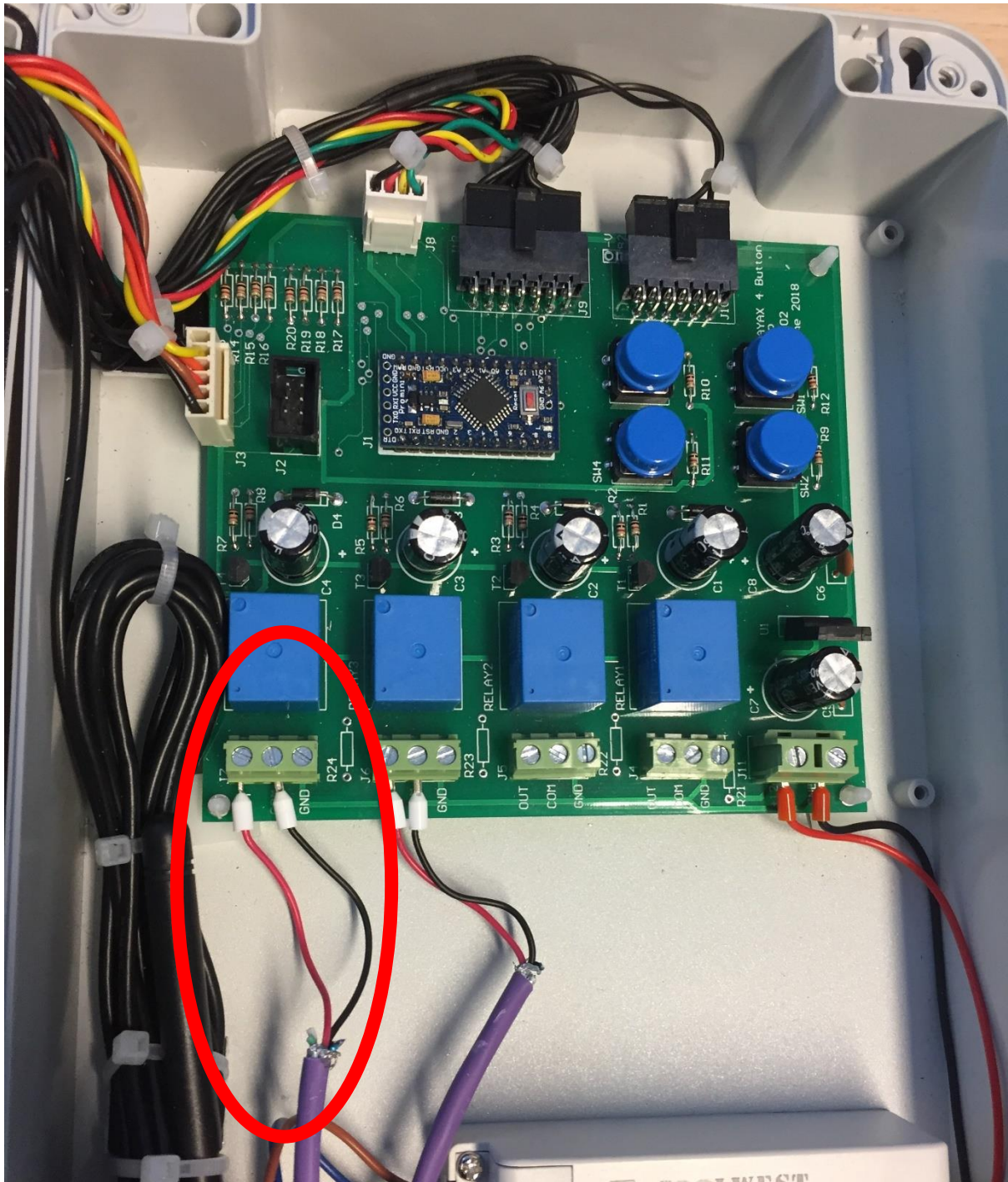


Figure 4 - wiring connection of the eoBasic to the EO Pay

Figure 4 shows two eoBasics connected to the EO Pay.



## 5 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/>

The EO Support team can be reached at:

- Email: [support@eocharging.com](mailto:support@eocharging.com)
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