



EO Mini and EO Basic LED Guide

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1 Introduction

This document is designed to detail the operation of the diagnostic LED on the EO Mini and EO Basic charging stations. The operation across the two devices is the same and the following sections explain what the different colours mean.

2 Colour Guide

The LEDs should be interpreted as follows:

2.1 Power Up

When the unit is powered up the following sequence should be observed

State	LED Colour	Notes
Power OFF	Not illuminated	No power is available
Power On	LED solid RED	Initialising
	LED pulses BLUE	Unit has started up successfully and is ready to charge

2.2 Normal Operation

State	LED Colour	Notes
No cable is inserted	LED pulses BLUE	Ready to charge
Cable is inserted	LED pulses GREEN	Charging station is communicating with the vehicle and trying to start a charging session
	LED solid GREEN	A charging session has started successfully
Cable is removed	LED pulses BLUE	Ready to charge

2.3 Fault Conditions

The charging stations can detect certain fault conditions and when a fault condition is detected then the LED flashes RED a certain number of times to indicate the nature of the fault. The fault codes are:

LED error codes	Notes
Solid Red	An internal fault has occurred
Two short red flashes	There is no earth connection
Three short red flashes	More than 6ma of DC current has leaked to earth
Four short red flashes	Live and Neutral are connected back to front
Five short red flashes	The mains supply has dropped below 170V

The LED is latching. This means that as soon as a fault is detected, then the fault code is displayed on LED until the end of the charging session. If the fault disappears during the charging session, then the LED will continue to display the fault code so that the end user is aware that a fault has occurred. The LED will only return to normal operation when the cable has been removed at the end of the charging session. This is designed to indicate to the end user, whether a fault has occurred and indicates a potential problem with the installation or might explain why the charging session was interrupted.

Without this functionality, a fault might occur on the installation and disappear before the end user can be notified.

2.3.1 What should I do if a fault occurs?

Remove the charging cable and verify the LED returns to normal operation (pulsing blue). If this doesn't clear the fault then power cycle the charging station by turning off and on the main circuit breaker (RCD) to the station. If the fault persists then contact the installer as there is potentially an installation issue that needs to be addressed.

3 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
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