



## EVline 100 Smart User Operation Manual



## Contents

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<b>Important Safety Information</b>	<b>3</b>
<b>The EVline 100 Smart Fast AC Chargepoint</b>	<b>4</b>
<b>EVline 100 Smart Indicator LEDs</b>	<b>6</b>
<b>Operating Modes</b>	<b>7</b>
Charging Authorisation	7
Maximum Charging Current	7
Back Office Communications	7
<b>Vehicle Charging procedure</b>	<b>8</b>
Free To Use Modes	8
Keyfob Authorised Charging Mode	9
<b>Chargepoint Measurements and Reporting</b>	<b>10</b>

## Important Safety Information

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### Warranty

CityEV Ltd. has made every effort to ensure the accuracy of the content of this manual. However, it is possible that it may contain technical inaccuracies or typographical or other errors. CityEV Ltd. will assume no liability for any inaccuracy found in this publication, nor for damages, direct, indirect, incidental, consequential or otherwise, that may result from such an inaccuracy.

The information provided in this manual is subject to change without notice. CityEV Ltd. reserves the right to alter product designs or specifications without notification.

### Important Safety Information

All safety warnings give specific details of the potential danger/warning present and indicate how to reduce risk of injury, damage and electric shock resulting from improper use of the device. Carefully observe the following instructions:

- Installation and maintenance must be carried out by a competent person, in compliance with the manufacturer's instructions, the relevant wiring regulations and local safety regulations.

**If in any doubt, consult a qualified electrician.**

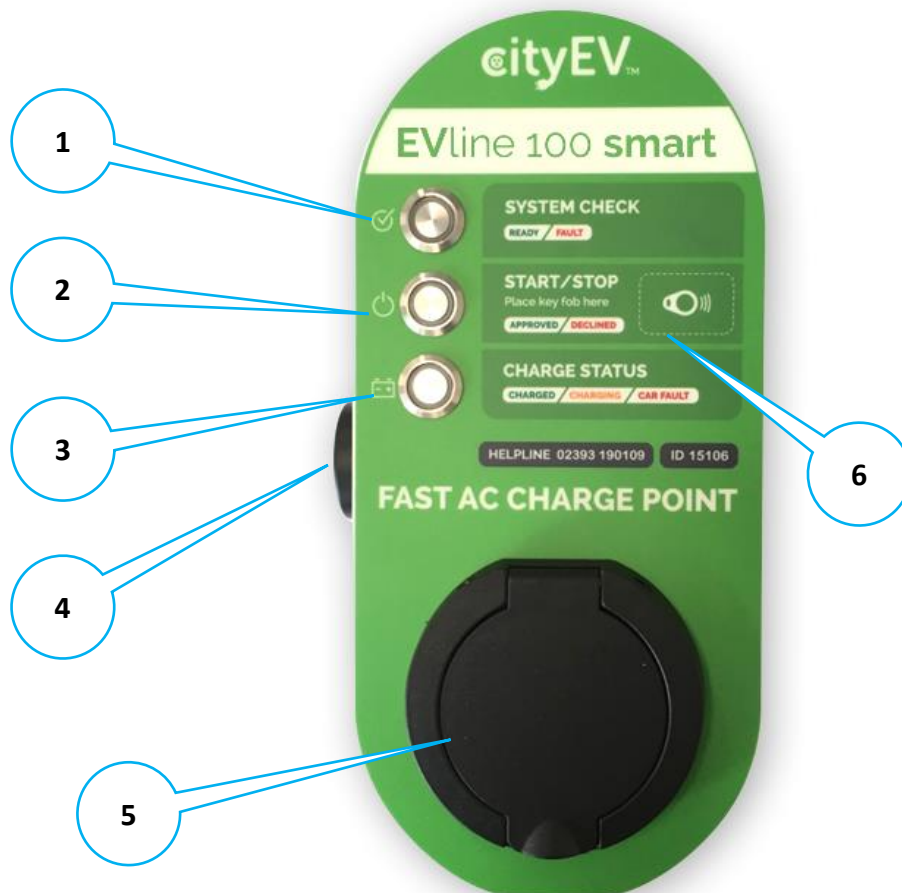
- The device must be disconnected from the power supply before carrying out any installation work.
- Regulations require that the device is earthed.
- Do not remove the device cover while the power supply is connected.
- Do not operate the device with the cover removed.
- Do not attempt to repair or replace any part of the device. In case of malfunction contact your installer or CityEV Ltd.
- All Maintenance operations must be carried out by a qualified technician.
- The manufacturer accepts no responsibility for any damage or injury caused by improper use or failure to comply with these instructions.

### **The EVline 100 Smart Fast AC Chargepoint**

The EVline 100 Smart electric vehicle charge point from CityEV is suitable for a wide range of applications including municipal, commercial and domestic installations.

The unit is fully capable of delivering 32A (7Kw charging), where the supply allows and supports centralised dynamic load management and load sharing. The system supports multiple charge authentication methods and has comprehensive built-in power metering and usage monitoring and reporting. With clear indications and simple operation, focused on ease of use for drivers.

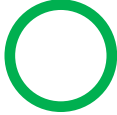
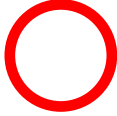



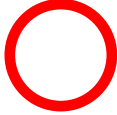



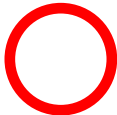
The picture below shows the EVline 100 Smart control unit and features.



1. System Status LED
2. Chargepoint Authorisation Status LED
3. Charging Status LED
4. GSM Communications Antenna
5. Type 2 EV Connection Socket
6. RFID Key Fob Reader Area

## EVline 100 Smart Indicator LEDs

The EVline 100 Smart uses 3 tri-colour LEDs to indicate the chargepoint status  
The LED functions are set out in the table below.

System Status LED (1)	
	System OK, ready to charge
	System Fault, Not available to charge
Authorisation Status LED (2)	
	Charging not yet authorised (Waiting for user key fob)
	Authorisation in progress
	Authorised to charge
	Not authorised to charge
Charging Status LED (3)	
	Not charging or EV not connected
	Pulsing - Charging in progress
	EV Charged
	EV Fault

### Operating Modes

#### Charging Authorisation

The EVline 100 Smart can be configured at the time of installation to operate in one of three distinct charge authorisation modes:

1. Always authorised, free to use.
2. Always authorised, free to use but can be enabled or disabled using keyfob.
3. Each charging session authorised by keyfob.

#### Maximum Charging Current

The EVline 100 Smart can be configured at the time of installation to operate in one of two maximum charging current modes:

1. 16A
2. 32A

The actual current at the time of use is limited according to the cable type used. i.e. a chargepoint configured to charge at a maximum of 32A will only operate at 16A if a 16A cable is used.

#### Back Office Communications

The EVline 100 Smart can be configured at the time of installation to use the built-in cellular network communications to communicate with the CityEV back office system to allow central monitoring and control of the chargepoint. This option can be used to provide chargepoint usage reports and billing if required.

Note that the use of this service is a cost option and will incur a monthly service charge.

### Vehicle Charging procedure

To charge your vehicle:

#### Free to Use Modes

1. Ensure that the charge point is ready and available for charging. This is indicated by a GREEN system check LED and a GREEN start/stop LED.
1. Connect the EV to using the appropriate cable to the type 2 EV connection socket located on the front of the unit.
2. Charging will start automatically and is indicated by the pulsing ORANGE charge status LED.

Note: when charging starts, the charge cable will be locked into position.

3. When the EV has been fully charged, the charge status LED will turn GREEN.
4. Release the cable connector lock by pressing the START/STOP switch or by disconnecting the charging cable (vehicle end first).
5. Remove the charging cable from the type 2 socket.
6. Charging can be stopped and the charge connector unlocked at any time by pressing the START/STOP switch.
7. Charging can also be stopped and the charge connector unlocked at any time disconnecting the charging cable from the vehicle end first.



### Keyfob Authorised Charging Mode

1. Ensure that the charge point is ready and available for charging. This is indicated by a GREEN system check LED.
2. Connect the EV to using the appropriate cable to the type 2 EV connection socket located on the front of the unit.
3. Place your user ID key fob over the START/STOP key fob zone indicated on the front of the unit.
4. If authorisation is successful the authorisation status LED will turn GREEN.
5. Charging will start automatically and is indicated by the pulsing ORANGE charge status LED.
6. Note: when charging starts, the charge cable will be locked into position.
7. When the EV has been fully charged, the charge status LED will turn GREEN.
8. Release the cable connector lock by placing your user ID key fob over the START/STOP key fob zone indicated on the front of the unit.
9. Remove the charging cable from the type 2 socket.
10. Charging can be stopped and the charge connector unlocked at any time by placing your user ID key fob over the START/STOP key fob zone indicated on the front of the unit.
11. Charging can also be stopped and the charge connector unlocked at any time disconnecting the charging cable from the vehicle end first.

### Chargepoint Measurements and Reporting

If the chargepoint has been configured to use the built-in cellular communications, after each charging cycle the following information will be uploaded by the chargepoint to the central system:

- Chargepoint ID
- User ID (Keyfob ID)
- Time EV was connected
- Time EV started charging
- Time Charge finished
- Time EV disconnected
- Energy used in Wh

**Note:** The use of this service will require the chargepoint installation details form to be returned to CityEV to enable the chargepoint to be set up on the central monitoring system and the unit's SIM card to be activated.

Note also that this is a cost option and will incur a quarterly service charge.

*For units supplied under the OLEV workplace chargepoint scheme back office communications and monitoring is mandatory.*

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## Chargepoint Installation Details Form

- **This form needs to be completed and returned to CityEV if it is required to include the chargepoint in the CityEV central chargepoint online monitoring system.**
- If the chargepoint has been installed under the OLEV Workplace Charging Scheme, central monitoring is an **OLEV mandatory** requirement.

The Cityline EVline 100 Smart charge point as supplied is not configured to use the back-office communications.

- 1.** First follow the instructions on pages 3 & 4 of this manual to enable back office communications on the chargepoint.
- 2.** Next fill out and return this form to CityEV for the process to be completed.

<b>Chargepoint ID</b>			
<b>Name of Owner</b>			
<b>Installation Address Including Postcode</b>			
<b>Billing Address</b>			
<b>Date of installation</b>			
<b>Charge point power</b>	16A		32A
<b>Installer Name &amp; Address</b>			

- 3.** Return this form to CityEV Ltd

By email: support@cityev.net  
By post: CityEV Ltd, Burnt Thorns, Kilsby Lane, Rugby. CV21 4PN  
By Fax: 01788 511078

