



URBAN M12, T12, T14-MIX



USER MANUAL

(M177J01-03-18A)



Disclaimer

CIRCUTOR, SA reserves the right to make modifications to the device or the unit specifications set out in this instruction manual without prior notice.

CIRCUTOR, SA on its web site, supplies its customers with the latest versions of the device specifications and the most updated manuals.

www.circutor.com



Revision log

Date	Revision	Description
06/18	M177J01-03-18A	Initial Version

Here's your manual to use and configure URBAN.

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This manual provides commissioning information, which has been designed and tested to allow electric vehicle charging, specified in IEC 61851.

This document has different sections describing electrical components inside the charge station and a step-by-step installation procedure.

THE FOLLOWING SYMBOLS ARE USED FOR IMPORTANT SAFETY INFORMATION IN THIS DOCUMENT



ELECTRIC RISK

Take precautions to make the electrical connection inside the unit.

Unit must be disconnected from any power source during commissioning.



ATTENTION!

Indicates that the damage to property can occur if appropriate precautions are not taken

- **Complies with IEC 61851, Electric vehicle conductive charging system (IES 61851-1 and IEC 61851-22)**
- **Complies with IEC 62196, Plugs, socket-outlets, vehicle couplers and vehicle inlets (IEC 62196-1 and IEC 62196-2).**
- **Standards: 2014/35/UE, LVD;2014/30/UE, EMC.**

So, hello!

IMPORTANT SAFETY INSTRUCTIONS



Read carefully all the instructions before manipulating the charge point.

The Charge Point may not include elements of electrical protection.

- Read all the instructions before using and configuring this Charge Point.
- Do not use this unit for anything other than electric vehicle charging.
- Do not modify this unit. If modified, **CIRCUTOR** will reject all responsibility and the warranty will be void.
- Comply strictly with electrical safety regulations according to your country.
- Do not make repairs or manipulations with the unit energised.
- Only trained and qualified personnel should have access to low-voltage electrical parts inside the device.
- Check the installation annually by qualified technician.
- Remove from service any item that has a fault that could be dangerous for users (broken plugs, caps that don't close...).
- Use only **CIRCUTOR** supplied spare parts.
- Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.

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A Main features

Charge Point may not include elements of electrical protection.

- **Plug 'n' Charge:** Basic operation, start charging when vehicle is detected, no need to authenticate.
- **LED beacon:** Three colour led indicates the status of the connectors.
- **Vehicle charged:** The user can easily differentiate when the vehicle is in charging process or is fully charged.
- **Current setup:** The maximum current delivered by the unit can be setup manually.

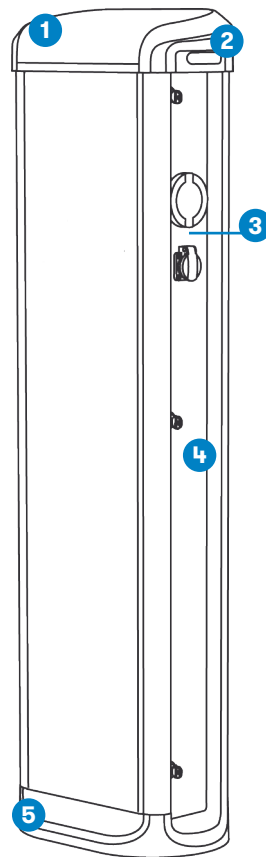
1 – Hat

2 – LED Beacons

3 – Plugs⁽¹⁾

4 – Key lock access

5 – Base



⁽¹⁾ Plugs may vary depending on the model

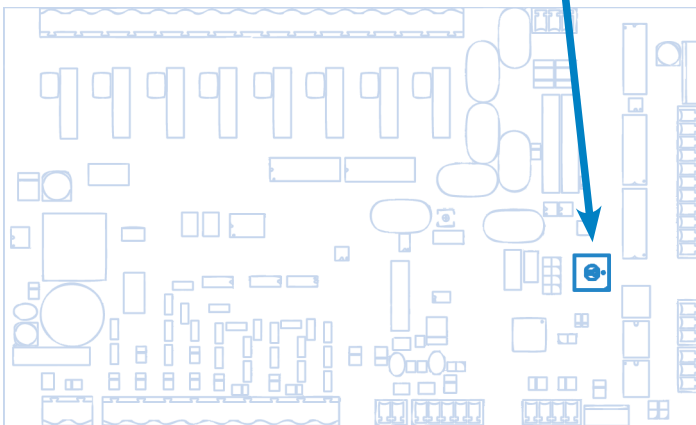
Features and Configuration

B Current setup

The unit has an on-board rotary dipswitch to configure the limit current of the unit.

The dipswitch must be adjusted considering the maximum current available in the power supply.

POSITION	CURRENT
0	Not used
1	6 A
2	10 A
3	13 A
4	16 A
5	20 A
6	32 A
7	Not used
8	Not used
9	Not used



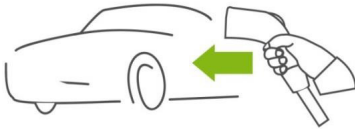
3

A Standby

The unit has two LED beacons (one for each plug). When it is green, it means that the unit is available and ready to start a charge transaction (A status, according to IEC 61851).



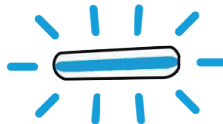
B Start



To start a new charge transaction, simply plug the cable.

C Charging

When the charge transaction starts, the LED beacon turns blue. After a few seconds, the LED beacon makes a fade-in/fade-out effect (status C, according to IEC 61851).



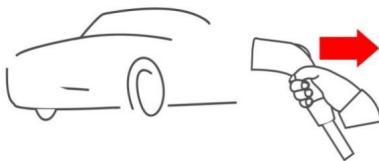
How to use it?

D Charged

When the EV is fully charged, the LED beacon shows a fix blue (B status, according to IEC 61851).



E Stop



Simply unplug the cable from the EV.

Once the cable is disconnected from the EV, the LED status bar turns back to green (A status, according to IEC 61851).



In this status, the unit is available to start a new charging transaction, whenever it is required.



A Out of temperature range

When the temperature inside the unit is below a certain value, it is detected by the unit.

In this situation, the status LED beacon turns yellow and keeps fix.



In the meantime, if the unit is supplied with heater (optional), it starts heating the inside components until the operating temperature is reached. After that, the unit starts charging again.

LED beacon sequence

B Errors

When the unit has an error, the LED bar blinks in red following a sequence.



#BLINKS	EVENT	DESCRIPTION	ACTION
1	Ventilation required	Some old EVs expel gases from the batteries. In this case, it is needed a ventilation system in the facility.	Please contact the Charge Point operator
2	Pilot error	Improper communication between the unit and the EV.	Unplug the cable from the vehicle and wait until the LED beacon turns green to plug it again.
3	Proximity error	The cable plugged to the unit is damaged.	Try using another cable.
4	Negative PWM error	Invalid communication response from EV.	Unplug the cable from the vehicle and wait until the LED beacon turns green to plug it again.
5	Maximum output current error	The on-board rotary dipswitch is set on an incorrect position.	Turn the dipswitch to a valid position (for further information please refer to section 2).
6	MCB tripped	Electrical protections tripped due to shortcircuit or overload.	Manual rearm required.
7	Tamper error	The frontal door of the unit is open.	Close the unit or put the tamper in service mode by pulling the switch out.



If the error persists, even after rebooting the unit, please contact our Post-Sales Department (for further information please refer to **section "Need help?"**).

ELECTRICAL DATA			
	M12	T12	T14-MIX
Power supply	1P+N+PE	3P+N+PE	
Input voltage	230V~±10%	400V~±10%	
Input Current (max)	67 A		
Frequency	50Hz / 60Hz		
Number of sockets	2 : Socket A, Socket B		4 ⁽²⁾ : 2 socket A, 2 socket B
Maximum socket Power	7.4 kW (socket A & B)	22 kW (socket A & B)	22 kW / 3.7 kW (socket A & B)
Maximum socket current	32 A (socket A & B)		32 A / 16 A (socket A & B)
Connectors type	Type 2 (socket A & B)		Type 2 / CEE 7/3 (socket A & B)
Charging Mode	Mode 3(socket A & B)		Mode 1, 2 & 3 (socket A & B)
Overcurrent protection	MCB 40A (Curve C) (socket A & B)		MCB 40A / 16 A (Curve C) (socket A & B)
Safety	RCD 30 mA (Type A) / (Type B) ⁽¹⁾		
Surge protection ⁽¹⁾	Transient surge protector IEC 61643-1 (Class II)		
GENERAL DATA			
Light beacon	RGB Colour indicator		
ENVIRONMENTAL CONDITIONS			
Operating temperature	-5°C ... +45°C		
Operating temperature with Low temperature kit ⁽¹⁾	-30°C ... +45°C		
Storage temperature	-20°C ... +60°C		
Operating humidity	5% ... 95% Non-condensing		
Enclosure rating	IP54 / IK10		
Enclosure material	Aluminium & ABS		
Enclosure door	Frontal key locked door		

Technical Data

MECHANICAL DATA			
Net weight	55Kg		
Dimensions (W x H x D)	450 x 1550 x 290 mm		
Min. cable section	M12	T12	T14-MIX
	25 mm ²		
STANDARDS			
IEC 61851-1: 2010, IEC 61851-22: 2001, IEC 62196-1: 2014, IEC 62196-2: 2011, 2014/35/UE, LVD;2014/30/UE, ISO 14443A/B			

⁽¹⁾ Optional.

⁽²⁾ The T14-MIX model has 2 double sockets. Each double socket consists of 2 sockets with different connectors and can not be connected simultaneously.

Need help?

In case of any query in relation to unit operation or malfunction, please contact the CIRCUTOR, SA Technical Support Service.

Technical Assistance Service

Vial Sant Jordi, s/n, 08232 - Viladecavalls (Barcelona)

Tel: 902 449 459 (Spain) / +34 937 452 919 (outside of Spain)

email: sat@circutor.com

Guarantee

CIRCUTOR guarantees its products against any manufacturing defect for two years after the delivery of the units.

CIRCUTOR will repair or replace any defective factory product returned during the guarantee period.



- No returns will be accepted and no unit will be repaired or replaced if it is not accompanied by a report indicating the defect detected or the reason for the return.
- The guarantee will be void if the units has been improperly used or the storage, installation and maintenance instructions listed in this manual have not been followed. "Improper usage" is defined as any operating or storage condition contrary to the national electrical code or that surpasses the limits indicated in the technical and environmental features of this manual.
- **CIRCUTOR** accepts no liability due to the possible damage to the unit or other parts of the installation, nor will it cover any possible sanctions derived from a possible failure, improper installation or "improper usage" of the unit. Consequently, this guarantee does not apply to failures occurring in the following cases:
 - Overvoltages and/or electrical disturbances in the supply;
 - Water, if the product does not have the appropriate IP classification;
 - Poor ventilation and/or excessive temperatures;
 - Improper installation and/or lack of maintenance;
 - Buyer repairs or modifications without the manufacturer's authorisation.

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