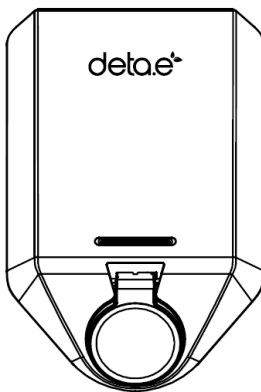


INSTALLATION AND OPERATION MANUAL



**THIS MANUAL, CHARGE POINT AND MOUNTING BASE
HAVE UNIQUE LABELS AND MUST BE KEPT TO TOGETHER**

THIS MANUAL MUST BE LEFT WITH THE PROPERTY

**IT CONTAINS IMPORTANT INFORMATION
FOR THE HOME OWNER/OCCUPIER/USER**

**THE CHARGE POINT MUST BE COMMISSIONED USING THE PROPRIETARY PARTNER APP
OTHERWISE THE WARRANTY IS INVALID**

Item Code	Description
EVC8001	eDock2 7.4kW EV Charge Point
EVC8006	eDock2 7.4kW EV Charge Point – 4G

Contents

INSTALLATION MANUAL	3
1. Overview	4
2. Safety Instructions	5
3. Product Overview	6
4. Packaging Contents List	7
5. Installation	8
6. Commissioning the EV Charge Point	14
7. Trouble Shooting – Commissioning	15
8. Product Specification	16
USER MANUAL	17
1. Overview	17
2. Safety Instructions	17
3. Set up Use	19
4. Charging your EV	20
5. LED Indicators	21
6. Trouble Shooting – User	22
7. Statement of Compliance	23
8. Warranty	23
9. Disclaimer	23

INSTALLATION MANUAL

For new build developments:

Site: _____

Plot Number: _____

Address: _____



Sticker:
Serial No, QR Code &
PIN



IMPORTANT NOTES

The Electric Vehicle Charge Point must be commissioned using the ElecQ Partner APP.

To use the ElecQ Partner APP, the commissioning electrical contractor must be registered to have an account within the Deta Organisation.

To register go to www.deta-e.co.uk or contact Deta Technical Customer Services.

The mounting base has a label with the serial number and QR code that are unique to the charge point supplied with it.

1. Overview

IMPORTANT

Please read this manual fully before starting the installation, maintaining or operating this unit

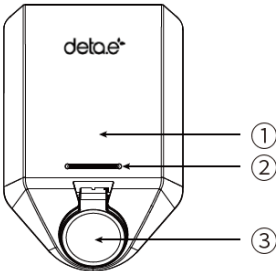
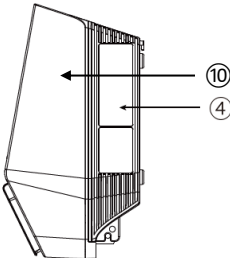
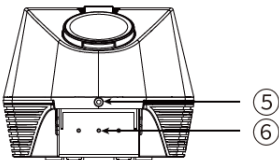
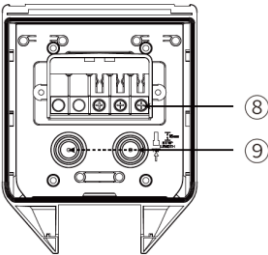
Description
The deta.e AC charge point is designed to charge electric vehicles (hereinafter called “EVs”) at your premises. This product can be controlled via an APP and requires an internet connection for general use, software updates etc. If an internet connection is not available from the property, the charge point can be commissioned using a mobile device which is Bluetooth enabled or has NFC, and a mobile data connection, e.g. 4G. Intended Use The deta.e AC charge point is intended for charging EVs only. It is suitable for both indoor and outdoor use. This product must be commissioned by a deta approved installer. The end user should register on the deta.e website (www.deta-e.co.uk) by scanning the web QR code on the side of the charge point before being prompted to download the user APP.
Product Features
• Charge point control, scheduling and energy usage monitoring via APP • Charge point control via RFID or mobile key • LED indicators • PEN fault detection and isolation • Ethernet or Wi-Fi connectivity • 4G connectivity for model EVC8006 • NFC and Bluetooth connectivity for commissioning • Current transformer (CT) and RS-485 connectivity for load management • Padlock locking feature to secure the charge point to its mounting base

APP Control
• The EVC 8000 series of EV Charge Points can only be initially commissioned using the ElecQ Partner APP. The commissioning electrical contractor must have an account and be in the Deta Organisation within the ElecQ Partner APP.

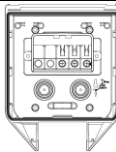
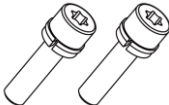
2. Safety Instructions

Safety Instructions	
The images and illustrations depicted in this manual may differ slightly from the actual product.	
• Read and follow all warnings and instructions before installing and operating the charge point. • Isolate the electrical supply before commencing the installation. • Installation must be carried out by a qualified electrician ensuring the installation complies with the current edition of the IET wiring regulations - BS 7671, ensuring the correct upstream circuit protection device is selected. • This equipment must be earthed through a permanent wiring system. • Do not install or use this equipment near flammable, explosive, harsh or combustible materials, chemicals or vapors. • Children should be supervised when around this equipment. • Do not insert fingers or foreign objects into the EV connector. • Do not use the equipment if any flexible power cord or EV cable is frayed, broken or otherwise damaged, or fails to operate. • Use copper conductors only. • Do not operate the equipment outside its operating temperature. • Incorrect installation and testing of the equipment could potentially damage the vehicle's battery, components, and/or the equipment itself. • Handle the equipment with care during transportation and installation. The mounting base must be installed on a flat surface and not twisted; do not use excessive force to pull when connecting the charge point to the base; do not step on the equipment, to prevent damage to it or any components. • If using the ELECCQ APP to control your charge points at a single site, all charge points must be the EVC 8000 series.	
WARNING	Remove the charge point before installation resistance testing
WARNING	This device is intended only for charging vehicles
CAUTION	To avoid a risk of fire or electric shock, this product must be installed and connected to a permanent fixed installation. Ventilation not required during charging.
CAUTION	The cable between the charge point and the EV should not be extended
CAUTION	Risk of electric shock. Do not remove cover or attempt to open the enclosure. No user serviceable parts inside. Refer servicing to qualified service personnel.
	DANGER If you use the equipment in any other way than described in this manual or other related documents, possible death, injury and damage to property can occur. For use with and for charging Electric Vehicles only. Use the equipment only as intended.

3. Product Overview

Features	
Front View 	1. RFID sensor position 2. LED Indicators (colour changing): • Green - Power LED • Blue - Charging LED 3. Charging Socket
Side View 	4. Product Label – contains deta.e website QR code and unique product QR code required for commissioning and end user setup
Bottom View 	5. Security screw 6. Bottom drill out cable entry for power/data <i>Use middle cable entry for combined power/data cable</i>
Top View 	7. Top drill out cable entry for power only
Inside Mounting Base 	8. Wiring terminals – Live and Neutral 9. Rear drill out cable entry for power and data 10. SIM Card slot under cover (EVC8006 only)

4. Packaging Contents List

Parts Included			
Before you begin, ensure all the parts below can be found within the packaging box			
Charge Point		Mounting Base	
ST5.5x 40mm Screws (x4)		8 x 40mm Wall Plugs (x4)	
Mounting screw waterproof washer (x4)		M5 x 18mm Screw (x2)	
M16 Closed Grommet (x2)		M25 Closed Grommet (x2)	
Strain Relief- 38mm (x1)		RFID Card (x2)	
T15 Security Torx Key		CT Clamp	
Installation manual			
Note: If the top or bottom cable entry points (for power and/or ethernet) are used, suitable waterproof glands are required (not supplied).			

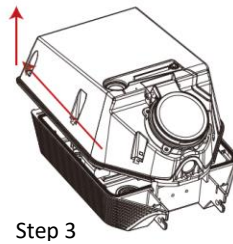
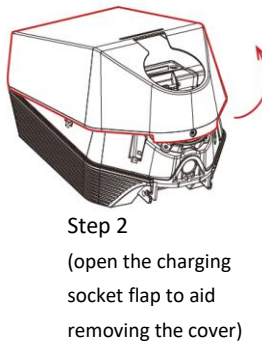
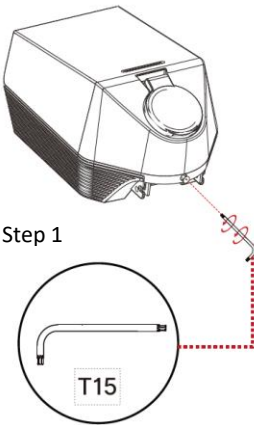
5. Installation

Location of EV Charge Point

- Install your charge point on a flat vertical surface capable of supporting its weight (the charger has a weight of approximately 2.3kg)
- Position the charger in a location where it is not vulnerable to being damaged
- Cable routing should be considered, e.g. whether supply cables are routed through a wall, or surface mounted
- The charge point can be mounted on a suitable post, with a suitable externally rated supply cable, e.g. SWA
- If using Wi-Fi for communication, signal strength needs to be determined before installation commences
- For a more reliable internet connection, it is recommended that an ethernet cable is routed to the charge point
- Consider the charging point location relative to the vehicle, whether length of the charging cable will sufficiently reach the vehicle's charging port

Detach front fascia and the main unit from the mounting base

1. Loosen the security screw using the torx key supplied
2. Open the charging socket flap, tilt the front fascia over the flap and gently pry it away from the main unit
3. Grasp the rear of the mounting base and push/slide the main unit upwards with force until it detaches from the mounting base



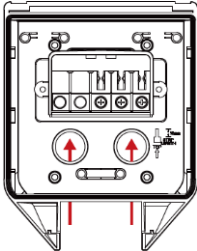
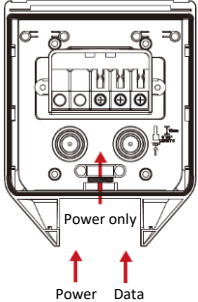
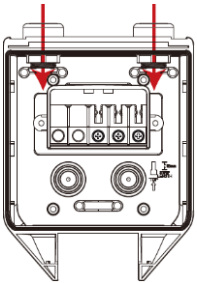
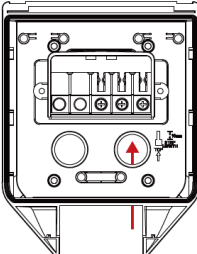
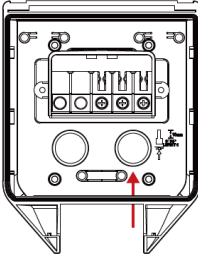
Cable Entry Options

The mounting base for the charge point has three cable entry options, top, bottom and rear.

All cable entry positions need to be drilled out; the centre point for the drill bit is marked on the base.

The top cable entry position is for a power cable only.

The bottom middle cable entry position can be used for combined power/data cables.

	Rear	Bottom	Top
Power Cable			
Data Cable			n/a
	Use grommets supplied	Use suitable cable gland (not supplied)	Use suitable cable gland (not supplied)

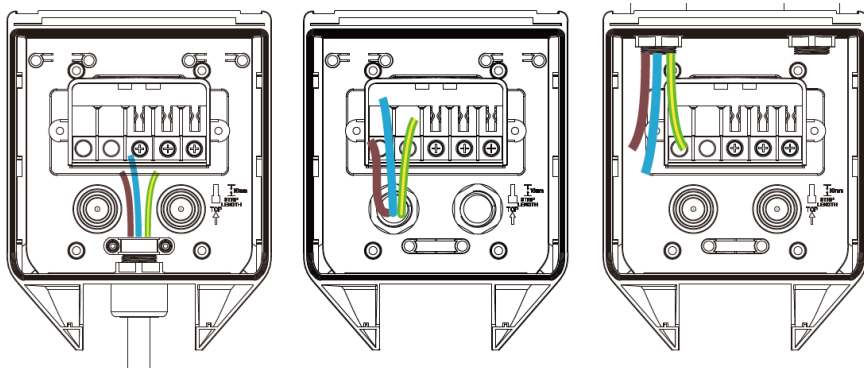
Fix the mounting base in the desired position, noting the correct orientation

-

The mounting base has a label with the serial number and QR code that are unique to the charge point supplied with it

Wiring

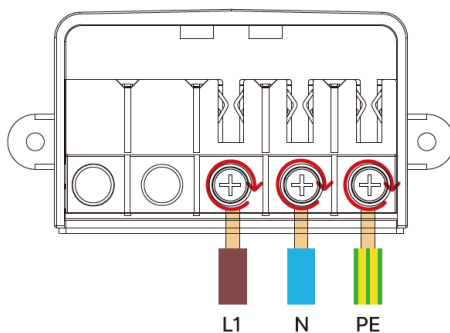
Route the cables into the mounting base, using the glands or grommets (see Cable Entry Options)



Terminate the power cable

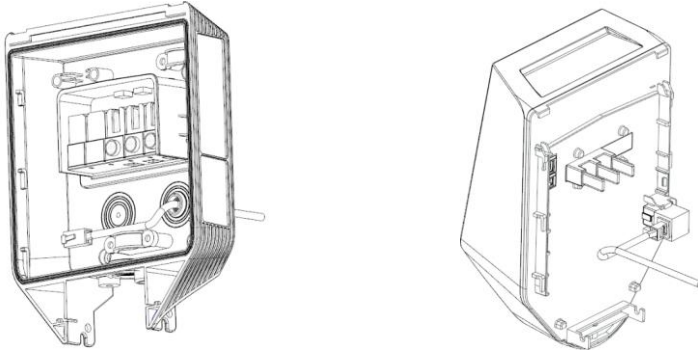
- Strip 16mm of insulation off the conductor
- Terminals should be tightened to 3Nm

TT/TN



Ethernet Cable

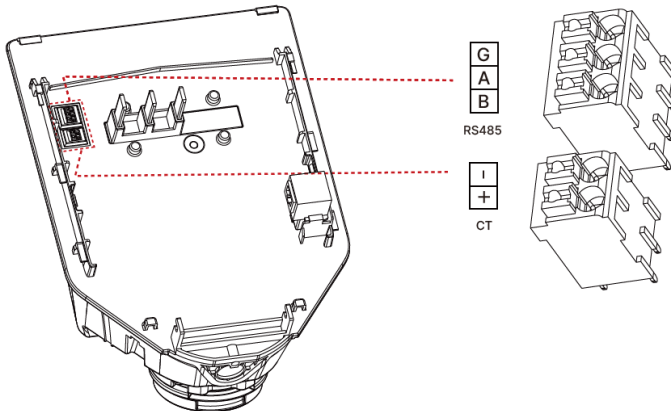
- Insert the Ethernet cable through the M16 grommet from the rear.
- Connect the Ethernet cable to the port.



CT Input and RS-485 Communication

A CT clamp is connected directly to the CT port at the back of the unit.

Additionally, an RS485 communication cable, such as one from an energy meter, is terminated at the rear of the EV charge point, above the CT input connector

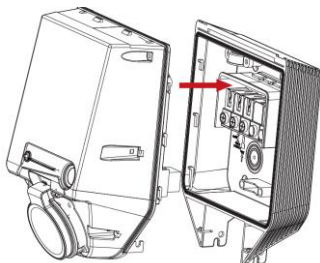


Electrical Installation Testing

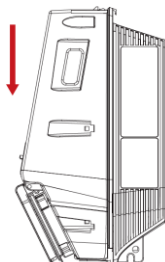
The charge point should be removed from the installation during insulation resistance testing.

Attach Charge Point to the Mounting Base

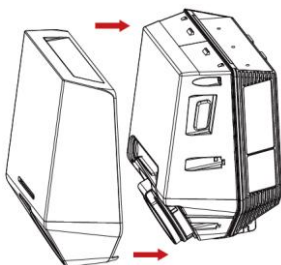
Align the main unit on the mounting base so that the contact pins fit into the small void above the contacts inside the mounting base, ensuring the main unit sits flat on the mounting base.



Apply downward force on the main unit to slide it into position, ensuring it is fully engaged otherwise the cover will not fit correctly



Hook the front fascia onto the catches at the top of the main unit. Then, tilt it down over the charging socket flap and press it down until it clicks into place



Secure the security screw using the torx key supplied

IMPORTANT

Do not replace the cover until the Charge Point is commissioned

6. Commissioning the EV Charge Point

Commissioning

The cover should be removed before commissioning the Charge Point.

Applying Power

When power is initially applied to the charge point, the power LED should illuminate white and will go through a series of self-checks, and change to cyan.

The charge point should be removed from the installation during insulation resistance testing.

ElecQ Partner APP

The charge point must be commissioned by an approved installer using the ElecQ Partner APP, which can be downloaded via www.deta-e.co.uk or your usual APP store.

The APP requires a password protected account to be setup. The account has to be approved by Deta, during normal working hours only. The Deta Organisation Code has to be entered to commission the deta.e charge points.

If the charge point is powered, it can be commissioned using Bluetooth. If it is not powered, it can be commissioned by an NFC enabled mobile device.

Commissioning

Log into the ElecQ Partner APP and enter the Deta Organisation Code that has been sent to you.

- Ensure the first screen states Deta at the top
- 1. For single charge points being installed and fed from a power supply from a single property, select 'Create New Private Site'.

For multiple charge points being fed from a landlords power, select 'Create New Public Site'.

- 2. Set the following by going into each screen:

Screen	Action
Create New Site	Follow on screen instructions to enter the site name, region, address and timezone (these fields are not mandatory)
Setup Circuit	Follow on screen instructions, including: • Load Balancing: Select as appropriate • Main Breaker: DNO fuse size, in Amps • Current Reserved: Recommend set at 10%

	- CT Specification: Check details match ratings on clamp - Circuit Breaker: Circuit protection device rating
	Charger Current Limit Select maximum charging current as determined by the installation/circuit design
	Charger Needs Activation Select Yes The User will need to use the PIN code in the instructions to use the Charge Point
Device	Add charge point to the site using either Bluetooth or NFC, holding the phone against the NFC tag
Overview	Check and confirm settings for the Site, Settings and Device
Functional Test	Carry out functional test of the Charge Point (an EV tester is required)

7. Trouble Shooting – Commissioning

Item	Problems	Solutions
1	No power	- Check the incoming supply to the charger - Check the charge point is connecting with the mounting base correctly
2	No network (for sites with an internet network)	- Check the RJ45 connector is fully inserted - Check the network cable continuity - Check the network settings
3	No Wi-Fi connection (for sites with an internet network)	- Check the Wi-Fi signal strength - Check the network security settings - Reboot the Wi-Fi router
4	Unable to link the Charge Point to the site in the Partner APP	- Make sure the Bluetooth or NFC is enabled on your mobile device and the charger is powered on and operating properly - If the problem persists, contact customer support
5	Unable to register charge point	- Check whether the QR code on the charger is consistent with the QR code on the Installation & User Manual - If so, make sure the Bluetooth is enabled on your mobile device; if not, contact customer support
6	Earth fault	Make sure the charger is earthed correctly

8. Product Specification

Specification	
AC Charging Output	Maximum 7.4 kW
Input supply	230V AC 50 Hz 32A single phase
Input terminals	Live/L1, Neutral/N, Protective Earth/PE
Earthing systems	TNC-S or TT
Connector Type	Untethered Type 2 Socket
Indications	LEDs multicolored
Metering	Built in meter IC $\pm 2\%$ (accuracy)
Integrated RDC-DD	AC 30mA + DC 6 mA
Protection	• Overcurrent • PEN fault detection and isolation • Integrated surge protection
Connectivity	• Ethernet (RJ45) • Bluetooth • Wi-Fi (2.4GHz & 5GHz) • RS-485
Communication Protocols	OCPP 1.6J and OCPP2.0.1
Mounting	Wall-mounted or floor using an optional pedestal
Enclosure Ratings	• IP65 (plug not inserted)/IP55 (plug inserted), indoor or outdoor installation • IK10
Operating Temperature	-40 to +55°C
Storage Temperature	-40 to +55°C
Safety and Compliance	• BS IEC/EN 61851-1 • BS EN 62196-1 • BS EN 61008-1 • BS IEC 62955 • The Electric Vehicles (Smart Charge Points) Regulations 2021
Codes and Standards	UKCA (TUV), CE
Load Management	• The maximum charging current can be set within the commissioning APP • Load management using a CT Clamp (supplied) for single charge point connected to a single property • Load management for multiple charge points, additional hardware is required

USER MANUAL

1. Overview

Description
The deta.e AC charge point is designed to charge electric vehicles (hereinafter called EVs) at your property. Your deta.e EV charge point is a connected product (as required by the Smart Charge Point Regulations) and requires an internet connection. The charge point operates via a smart phone APP which is available for multiple users to download and use.
Intended Use The deta.e AC charge point is intended for charging EVs only. It is suitable for both indoor and outdoor use. This product must be installed and commissioned by a Deta approved installer.

2. Safety Instructions

Safety Instructions
CAUTION – Operation During the charge session the plug is locked into the charge point, do not disconnect the charging handle. There is a risk of damage to the cradle of the charge point. Stop charging before disconnecting the plug.

Safety Instructions

NOTE

The images and illustrations depicted in this manual may differ slightly from the actual product.

- Read and follow all warnings and instructions before installing and operating the charger.
- Children should be supervised when around this equipment.
- Do not insert fingers or foreign objects into the electric vehicle connector.
- Do not use the equipment if any flexible power cord or EV cable is frayed, broken or otherwise damaged, or fails to operate.
- Do not operate the equipment outside its operating temperature
- Handle the equipment with care during transportation and installation. The mounting base must be installed on a flat surface and not twisted; do not use excessive force to pull when connecting the charge point to the base; do not step on the equipment, to prevent damage to it or any components.
- For use with and for charging Electric Vehicles only.
- If using the ElecQ APP to control your charge points at a single site, all charge points must be the same make.



WARNING This device is intended only for charging vehicles.

CAUTION To avoid a risk of fire or electric shock, this product must be installed and connected to a permanent fixed installation. Ventilation not required during charging.

CAUTION The cable between the charge point and the EV should not be extended

CAUTION Risk of electric shock. Do not remove cover or attempt to open the enclosure. No user serviceable parts inside. Refer servicing to qualified service personnel.



DANGER

If you use the equipment in any other way than described in this manual or other related documents, possible death, injury and damage to property can occur. For use with and for charging Electric Vehicles only. Use the equipment only as intended.



CAUTION

Use of the EV charge point may affect the operation of or impair any medical or implantable electronic devices, such as an implantable cardiac pacemaker or an implantable cardiovascular defibrillator. Before using the EV charge point, check with your electronic device manufacturer regarding the effects that charging an EV may have on such electronic devices.

3. User Setup

Step 1

Download the ElecQ User App from the www.deta-e.co.uk website by scanning the website QR code on the side of the charge point (marked 1 in the diagram) or your usual APP provider

1

2



Step 2

After downloading and opening the ElecQ APP, follow the instructions to create an account

1. Use a valid email address or mobile phone number
2. A verification code will be sent to the email address or mobile phone number used
3. Enter this code when prompted to complete registration

Step 3

- Follow the on screen instructions to add the Charge Point to the APP by scanning the QR or entering the serial number (marked 2 in the diagram or in this instruction manual on page 3)

The Charge Point will need to be connected to the internet

A charging schedule can be set

Maximum Charging Current

- The maximum charging current can be adjusted

Autostart

- This feature can be selected to start charging when the EV is connected

Randomised Delay

- This feature should be enabled as required by the Smart Charge Regulations, but can be turned off

4. Charging Your EV

Charging Options
Your charge point has different options on how to start charging: • Using the APP start/stop feature • Using the Charging Schedule within the APP which allows the user to schedule charging times • Using the RFID card
How to Charge your EV via APP
Start charging 1. Connect the charging cable by inserting the connector in the EV and the plug into the charge point socket 2. Open the ElecQ APP and select Charger tab 3. Select Start Stop charging 1. Open the ElecQ APP and select Charger tab 2. Select Stop There may be a few seconds delay before the charge point operates 3. Remove the charging handle from the charger socket outlet and the EV charge port There may be a few seconds delay before the charge point operates. Also, see Random Delay in 6. Trouble Shooting below
How to Charge your EV via RFID Card
Using the User APP, pair RFID card to the charge point by opening My Charger and selecting Access Options Start charging 1. Insert the charging cable into the vehicle connector on your EV and the charge point socket outlet 2. Tap RFID card against logo Stop charging 1. Tap RFID card against logo 2. Remove the charging handle from the charger socket outlet and the EV charge port There may be a few seconds delay before the charge point operates

5. LED Indicators

LED Description	Description
Solid cyan	• Booting up, in standby waiting to plug in
Solid green	• Plugged in, ready to start Charging
Breathing green	• Phone key authentication Approved
Blue streaming from left to right	• Charging in Progress
Solid green	• Charging finished (normal)
Blinking blue	• Charging pause (normal)
Blinking yellow	• Charging pause (Alert)
Blinking yellow	• Alert Triggered (Overtemperature or Other Recoverable Alarm)
Blinking red	• Critical Alarm, Charger Unable to Operate Normally
Solid yellow	• Charger Unavailable
Yellow streaming from left to light	• Charger is upgrading

6. Trouble Shooting – User

	Issue	Resolution
1	The charge session does not start as scheduled	• Do not insert the connector into your EV charging port before setting up a charging schedule for the first time. Insert the EV charging cable after the schedule is set up.
2	Power failure	• Make sure the switch to the circuit breaker is on.
3	Over-heating	• Check whether the EV charging cable is securely connected. • Ensure the operating temperature is within the specified range on the product label. • Stop charging. Do not restart charging until it is within the operation temperature range.
4	Residual current detected	• Unplug the vehicle and plug in again. If the problem persists, contact customer support.
5	Internet connection goes down	• If your internet connection goes down, the charge point can be controlled by the RFID Cards, Bluetooth/Phone Key.
6	Random Delay	• The EV Smart Charge Point Regulations require that the Charge Point has Random Delay feature, so the EV starts charging up to 10mins after starting. • This feature can be switched off, or overridden by tapping Start twice.

7. Statement of Compliance

Statement of Compliance

Deta Electrical Company Limited
declares under its sole responsibility
that this charge point meets (model number on front cover)
The Electric Vehicles (Smart Charge Points) Regulations 2021
The software version can be identified on the ElecQ APP

Sign for and on behalf of Deta Electrical Company Limited

November 2024

8. Warranty

Warranty EVC8001 and EVC8006: eDock2 2-years*

* the earlier of 2-yrs from the date of commissioning (Site Creation and EVCP added in Partner APP) or 3-yrs from the date of manufacture, extendable by an additional 1-year upon registration at www.deta-e.uk, subject to registration being made within the initial warranty period.

deta.e charge points must be installed and commissioned by a Deta approved installer in accordance with the warranty terms and conditions, else the warranty will be void

9. Disclaimer

All information, specifications and illustrations in this manual are based on the latest information available at the time of printing. deta.e is a brand of Deta Electrical Co. Ltd.

Deta Electrical Company Limited reserves the right to make changes at any time without notice. While information in this manual has been carefully checked for accuracy, no guarantee is given for the completeness and correctness of the contents, including but not limited to the product specifications, functions, and illustrations.

Deta Electrical Company Limited will not be liable for any direct, special, incidental, indirect damages or any economic consequential damages (including the loss of profits).

See www.deta-e.co.uk for full detail of Terms of Business

Deta Electrical Company Limited

UK: Panattoni Park Luton Road Chalton Bedfordshire LU4 9TT
EU: Unit 16 Ashbourne Ind. Est. Ashbourne Co. Meath A84 W972
Technical Helpline: +44(0)1582 544 548
deta-e.co.uk



UK & EU Declaration of Conformity



Deta Electrical, under its sole responsibility, declares:

Item Code	Description
EVC8001	7.4kW 230V 1phase EV Charge Point eDock2
EVC8006	7.4kW 230V 1phase EV Charge Point eDock2 4G

Have been manufactured to the following Standards:

BS EN IEC 61851-1	Electric vehicle conductive charging system. General requirements.
IEC 61851-21-2	Electric vehicle conductive charging system. Electric vehicle requirements for conductive connection to an AC/DC supply. EMC requirements for off board electric vehicle charging systems
IEC 61439-7	Low-voltage switchgear and controlgear assemblies — Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicle charging stations
EN 62311	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz — 300 GHz)
IEC 62955	Residual direct current detecting device (RDC-DD) to be used for mode 3 charging of electric vehicles
EN 301 489-1 V2.2.3	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for Electromagnetic Compatibility
EN 301 489-3 V2.3.2	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
EN 301 489-17 V3.2.4	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility
EN 301 489-52 V1.2.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment; Harmonised Standard for ElectroMagnetic Compatibility
ETSI EN 300 328 V2.2.2	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum
ETSI EN 303 645 V2.1.1	Cyber Security for Consumer Internet of Things: Baseline Requirements

In Accordance with the following Regulations:

The Electric Vehicles (Smart Charge Points) Regulations 2021 including Schedule 1 Security Requirements	Low Voltage Directive (LVD) 2014/35/EU
Electrical Equipment (Safety) Regulations 2016	Electromagnetic Compatibility (EMC) Directive 2014/30/EU
Electromagnetic Compatibility Regulations 2016	RED Directive (2014/53/EU)
Radio Equipment Regulations 2017	RoHS Directive (2011/65/EU)
RoHS Regulations 2012	ETSI (European Telecommunications Standards Institute)
ETSI (European Telecommunications Standards Institute)	

The software version can be identified on the ElecQ® Partner APP

We declare that given information on the above statement is true and correct to the best of our knowledge.

Signed on behalf of
Deta Electrical Co Ltd.


A J Pegrum
Technical Manager
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