

6.2 Establishing Serial Connection

1. Connect the micro USB Cable to the EVCS-Cube and the computer's USB port
2. Connect the EVCS-Cube to the power supply using the power cable.

On Windows:

1. Open the Device Manager.
2. Go to Ports and note the used Port (e.g. COM6).
3. Open Putty, select "Serial" and enter the connection name (e.g., COM6).
4. Set the speed to 115200 and click "Open".
5. Use the login "root" and press "Enter"

On Linux:

1. Open a terminal and run:
 - `ls /dev/ttyUSB*`
2. Open Putty, select "Serial" and enter the highest number (e.g., ttyUSB3).
3. Set the speed to 115200 and click "Open".
4. Use the login "root" and press "Enter"

7. Managing BaseCamp Logs

Check Status

1. Establish a connection to the system (serial or SSH).
2. Execute the following command: `systemctl status basecamp`

Restart BaseCamp

1. Stop the BaseCamp Service: `systemctl stop basecamp`
2. Start the BaseCamp Service: `systemctl start basecamp`

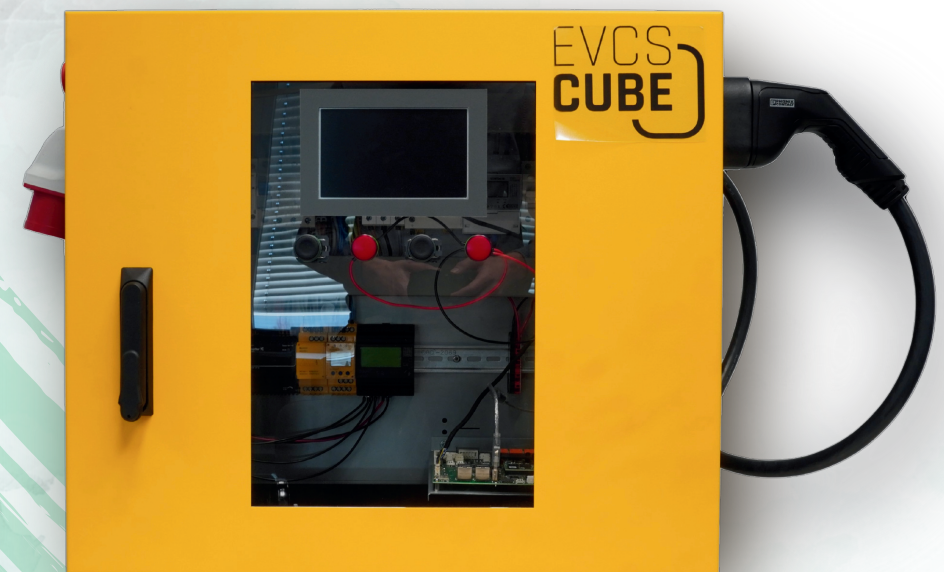
Monitor logs

1. Use the command: `journalctl -u basecamp -f`

PHYTEC

EVCS
CUBE

Quick Start Guide



EVCS-Cube PoC (DC)

1. Safety and Usage Instructions



- Read the "Safety Instructions" for additional precautions
- Handle the EVCS-Cube with care to avoid damage or hazards
- Only operate the Cube with the door closed and locked

2. List of components

- phyVERSO-EVCS Baseboard
- TH-210 Serial Adapter with Ribbon Cable
- Ethernet Cable (RJ-45)
- Micro USB to USB-A Cable
- Eastron AC Power Meter
- Isabellenhütte DC Power Meter
- Bender Isometer
- 7" LVDS Display
- Huawei 40kW DC Power Supply
- Keys for locking the EVCS-Cube
- 4x wheels

3. Initial Setup Instructions



- Powercable is NOT included in the box
- Product has been tested with Windows 10 and Ubuntu 20.04
- For questions, contact fae@phytec.de

4. Quick Start Charge Process

1. Ensure the EVCS-Cube door is closed and locked.
2. Connect the EVCS-Cube to a 32A CEE outlet.
3. Connect a car simulator or an electric vehicle to the EVCS-Cube
4. The charging process starts automatically when:
 - The EVCS-Cube is powered
 - A tester or vehicle is connected
 - The tester is switched from state "A" to state "C"
5. Tested Compatible Vehicles:
 - Polestar V2
 - Smart Electric #1
 - Hyundai Ioniq 6

Note: No external PC is required for an initial test. The BSP and Basecamp software boot automatically.

5. Installing Putty

On Windows:

1. Visit putty.org.
2. Download the installation package.
3. Install Putty on your computer.

On Linux:

1. Open a terminal.
2. Run the command: `sudo apt update && sudo apt install putty -y`

6.1 Establishing an SSH Connection

Assign a Static IP Address:

On Windows:

1. Open the Network Manager.
2. Navigate to "Change Adapter Settings."
3. Right-click your network connection and click to "Properties."
4. Highlight "Internet Protocol Version 4 (TCP/IPv4)" and click "Properties."
5. Assign a static IP address, e.g.,:
 - IP Address: 192.168.3.10
 - Subnet Mask: 255.255.255.0
6. Click "Ok".

On Linux:

1. Open LAN settings.
2. Create a new profile and assign a static IP address, e.g.,:
 - IP Address: 192.168.3.10
 - Subnet Mask: 255.255.255.0

Establish a Connection (Windows & Linux)

1. Ensure the EVCS-Cube door is closed and locked.
2. Establish a Connection via the Ethernet cable between Cube and PC.
3. Open Putty and select "SSH"
4. Enter `root@192.168.3.11` on Port 22 and click "Open"

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On Windows:

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2. Go to Ports and note the used Port (e.g. COM6).
3. Open Putty, select "Serial" and enter the connection name (e.g., COM6).
4. Set the speed to 115200 and click "Open".
5. Use the login "root" and press "Enter"

On Linux:

1. Open a terminal and run:
 - `ls /dev/ttyUSB*`
2. Open Putty, select "Serial" and enter the highest number (e.g., ttyUSB3).
3. Set the speed to 115200 and click "Open".
4. Use the login "root" and press "Enter"

7. Managing BaseCamp Logs

Check Status

1. Establish a connection to the system (serial or SSH).
2. Execute the following command: `systemctl status basecamp`

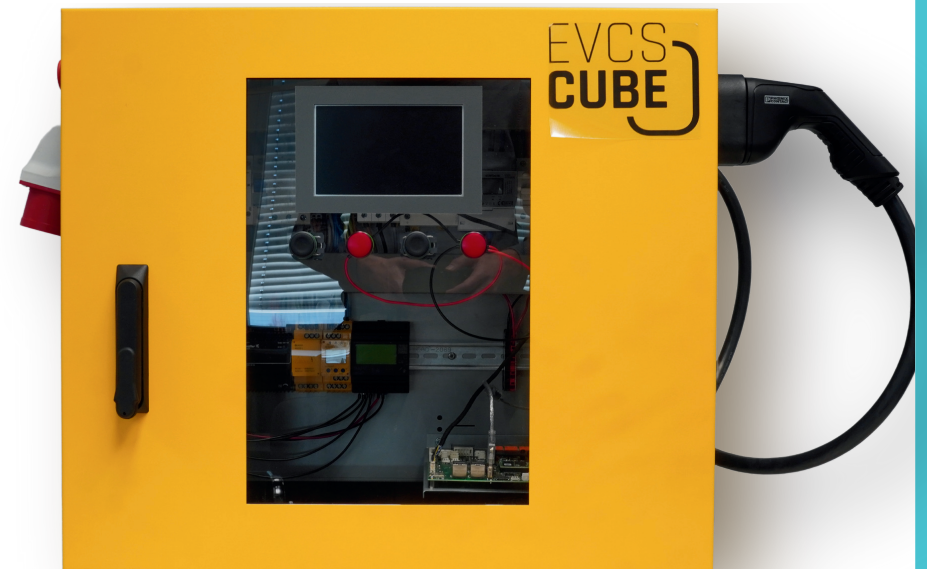
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1. Stop the BaseCamp Service: `systemctl stop basecamp`
2. Start the BaseCamp Service: `systemctl start basecamp`

Monitor logs

1. Use the command: `journalctl -u basecamp -f`

EVCS-Cube PoC (DC) QUICK-START-GUIDE



PHYTEC

EVCS
CUBE

1. Safety and Usage Instructions



- Read the "Safety Instructions" for additional precautions
- Handle the EVCS-Cube with care to avoid damage or hazards
- Only operate the Cube with the door closed and locked

2. List of components

- phyVERSO-EVCS Baseboard
- TH-210 Serial Adapter with Ribbon Cable
- Cold appliance cable
- Ethernet Cable (RJ-45)
- Micro USB to USB-A Cable
- Counterplug
- Eastron Power Meter
- 16A Circuit Breaker
- 6A Circuit Breaker
- FI Circuit Breaker
- Contactor
- DC Power Supply
- Installation Contactor
- 12V Power Cable (Only necessary when using the phyVERSO-EVCS on its own)

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