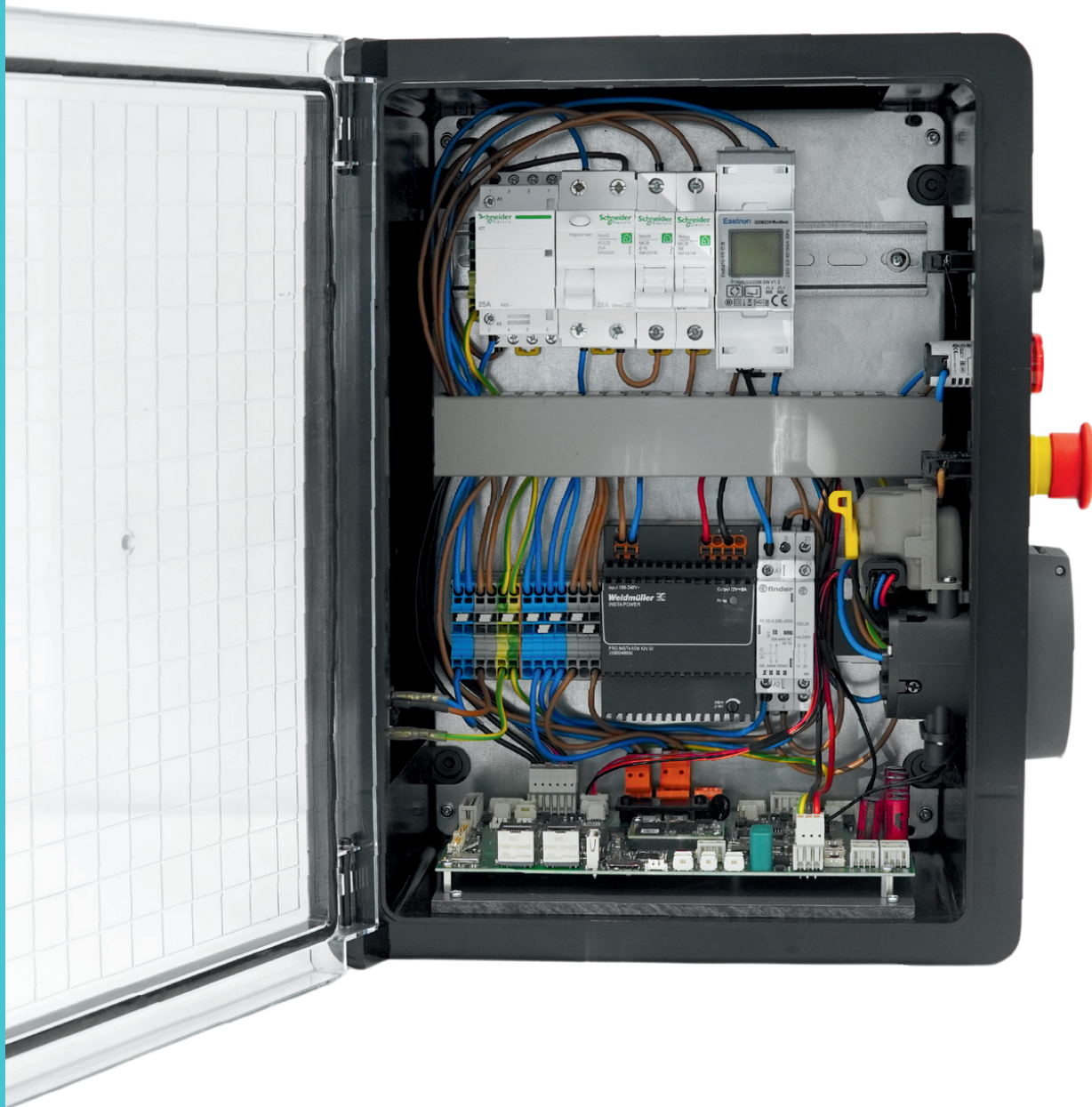


EVCS-Cube Basic

QUICK-START-GUIDE



1. Safety and Usage Instructions



- Read the "Safety Instructions" for additional precautions.
- Always handle the phyVERSO with care to avoid damage or hazards.
- Use only the supplied cold appliance cable to operate the EVCS-Cube.
- Operate the EVCS-Cube only with the door closed and locked.
- Route data cables through the side cable guide of the EVCS-Cube.

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)

3. Initial Setup Instructions



- The hardware must be assembled by qualified personnel.
- The 16A circuit breaker must be connected as per the wiring diagram
- Without proper installation, the EVCS-Cube Basic will not function.
- Product has been tested with Windows 10 and Ubuntu 20.04.
- For questions, contact fae@phytec.de.

4. Initial Commissioning

1. Connect the EVCS-Cube to the power supply using the provided power cable.
2. Connect a car simulator or an electric vehicle to the phyVERSO Baseboard
3. 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."
4. Tested Compatible Vehicles:
 - Polestar V2
 - Smart Electric #1

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. Connect the right Ethernet port of the phyVERSO to the computer.
2. Route the cable through the EVCS-Cube side cable guide.
3. Ensure the EVCS-Cube door is closed and locked.
4. Plug in the EVCS-Cube with the power cable.
5. Open Putty and select "SSH"
6. Enter `root@192.168.3.11` on Port 22 and click "Open"

6.2 Establishing Serial Connection



Ensure correct orientation of the red stripe on the ribbon cable. (Figure 1)

1. Connect the serial adapter to the phyVERSO and the computer's USB port (Figure 1).
2. Route the USB cable through the EVCS-Cube cable guide.
3. Close and lock the EVCS-Cube door.
4. Connect the EVCS-Cube to the power supply using the power cable.

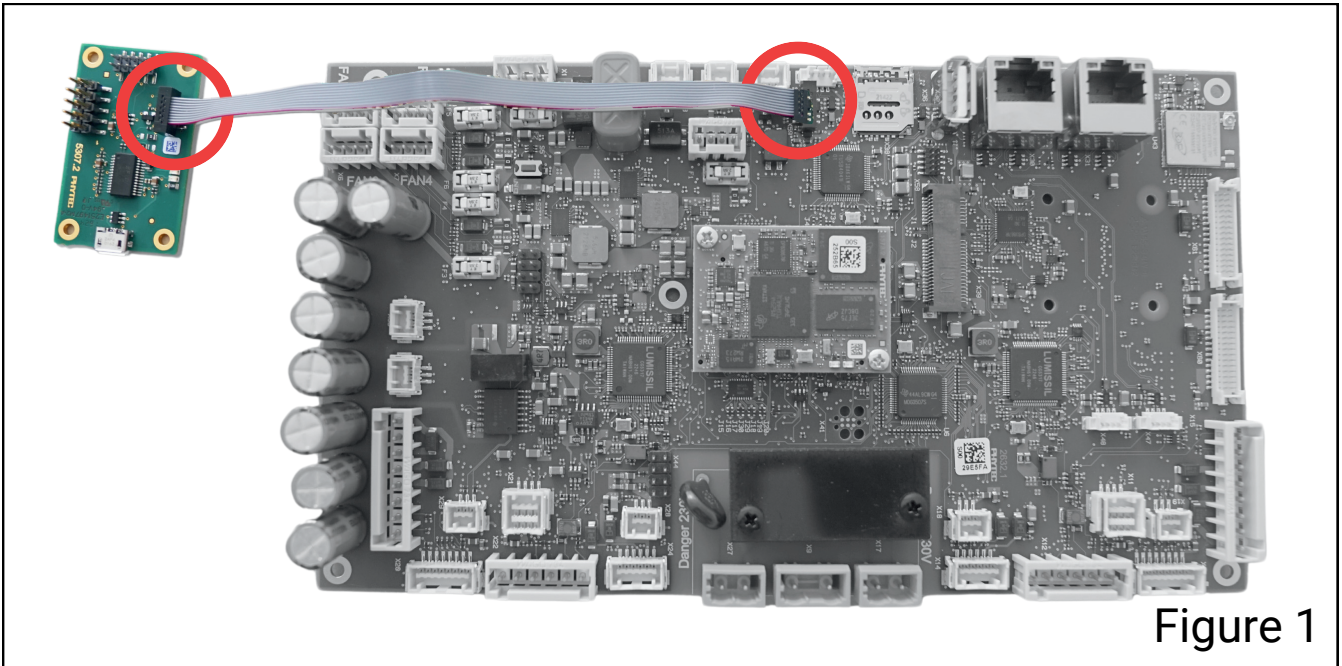


Figure 1

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`