EVlink

Pro AC Charging Stations

Troubleshooting Guide

Highly reliable and smart charging stations for an increased efficiency and sustainability

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Safety Information

Important Information

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.



WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

CAUTION indicates a hazardous situation which, if not avoided, **could result** in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

About the Book

EVlink Master Range

EVlink is the Schneider Electric range of eMobility solutions with electric vehicle (EV) charging stations, EV Energy Management Software, and EV Field Services. eMobility solutions can be used in a full range of applications such as residential, buildings, and fleets that enable driving to a net-zero future.

Document Scope

This document provides you with information to guide you in troubleshooting of an EVlink Pro AC charging station and an EVlink Pro AC Metal charging station.

This document tells you how to:

- carry out first level troubleshooting without eSetup app.
- carry out second level troubleshooting with eSetup app connected to the charging station.
- restore the factory settings of the charging station.

This document is intended for commissioning technicians, electrical contractors and site operators.

Validity Note

This document applies to EVlink Pro AC and Pro AC Metal charging stations.

Online Information

The technical characteristics of the devices described in this guide also appear online. To access the information online, go to the Schneider Electric home page at www.se.com.

The information contained in this guide is likely to be updated at any time. Schneider Electric strongly recommends that you have the most recent and up-todate version available on www.se.com/ww/en/download.

Related Documents

The documentation related to the Pro AC charging stations is the following:

| Title of documentation | Reference number |
|------------------------------------------------------------------|----------------------------------------------------|
| EVlink Pro AC - Installation Guide | NNZ1940301 |
| EVlink Pro AC - Spare Part Replacement Guide | GEX2273501 |
| EVlink Pro AC - Spare part replacement guide for standards | GEX4591201 |
| EVlink Pro AC - OCPP Protocol Connectivity Guide | GEX1969200 |
| EVlink Pro AC - Modbus Connectivity Guide | GEX1969300 |
| Video showing how to diagnose an EVlink Pro AC issue with eSetup | How to diagnose an EVlink Pro AC issue with eSetup |

The documentation related to the Pro AC Metal charging stations is the following:

| Title of documentation | Reference number |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| EVlink Pro AC Metal wall-mounted charging station with 1 charge point - Installation Guide | JYT24399 |
| EVlink Pro AC Metal floor-standing charging station with 2 charge points - Installation Guide | JYT24397 |
| Video showing how to install and wire two charge point EVlink Pro AC Metal | How to install and wire two charge point EVlink Pro AC Metal |
| Electrical diagram EVlink Pro AC Metal | GEX2008001 |

The documentation related to the Pro AC charging stations with an Eichrecht meter is the following:

| Title of documentation | Reference number |
|----------------------------------------------|------------------|
| EVlink Pro AC Eichrecht - User Guide | DOCA0287EN & DE |
| EVlink Pro AC Eichrecht - Installation Guide | PKR12258 |

You can download these technical publications and other technical information from our website at www.se.com/ww/en/download.

Trademark

QR Code is a registered trademark of DENSO WAVE INCORPORATED in Japan and other countries.

Introduction

The troubleshooting of the Pro AC charging station is done in the following infrastructure.

Example of System Installation With EVlink Pro AC Charging Stations



- A. EcoStruxure EV Charging Expert (energy management)
- B. Switch IT
- C. 3G/4G exterior modem (option)
- D. Power meter
- E. Main panel board
- F. EV divisional distribution panel board
- G. EVlink Pro AC
- H. EVlink Pro AC Metal
- I. eSetup smartphone application
- J. Electric Vehicle

List of Tools

To carry out the troubleshooting of an EVlink Pro AC charging station and an EVlink Pro AC Metal charging station, you need the following tools:





Smartphone







Admin badge

T20 Security x 100 mm

eSetup application -Google store

eSetup application -Apple store

For EVlink Pro AC Metal Charging Station Only



Special key to open the EVlink Pro AC Metal charging station

EVlink Pro AC Description

EVlink Pro AC

EVlink Pro AC is an AC power system for electric vehicles.

There are three types of Pro AC charging stations:

- Charging stations with a T2S socket
- Charging stations with an attached cable
- Charging stations with a T2S socket and a domestic socket







EVlink Pro AC Metal

The EVlink Pro AC Metal charging station is assembled with the following components:

- A metal kit enclosure:
 - wall mounted for 1 charge point, or
 - floor standing for 1 charge point, or
 - floor standing for 2 charge points.
- EVlink Pro AC charger to be installed inside the metal enclosure.
- Optional: Kaedra enclosure and/or Thalassa enclosure to be mounted inside the metal enclosure(s) for hosting the electrical protections.



EVlink Pro AC Identification

The industrial identification label of EVlink Pro AC is located at the side of the charging station.



It indicates the serial number (SN) and the commercial part number (EVB3 xxx).

The serial number is coded M_YY_WW_D_RR_LL_NN, where:

- M: Manufacture plant and production line code
- YY: Year of the manufacture
- WW: Week of the manufacture
- D: Day of the week of manufacture (Monday =1)
- RR: Revision of the charging station
- LL: Production batch number
- NN: Unique production batch number

For example, R22045040123 means that update 04 of charging station 23 of batch 01 was manufactured at plant R on Friday 28 January 2022.

When the QR code on the identification label is scanned with a smartphone running a QR code reader and connected to the Internet, the Go2SE landing page is displayed. The landing page gives access to charging station characteristics and documentation.

Exterior View

The following graphic describes the charging station exterior.



- A. Status indicator light
- B. RFID / NFC reader
- C. Domestic socket (TE or TF type)
- D. Socket with shutters T2S
- E. 5 m attached cable
- F. T2 vehicle connector
- G. Identification label

Socket With Shutters T2S

The following graphic describes the socket with shutters T2S.



- D. Earth contact
- E. Four shutters

Domestic Socket

The following graphic describes the domestic socket.



- A. Flap
- B. Flap gasket
- C. Two shutters
- D. Two sensors

Inside View



To remove the covers and access the inside of the EVlink Pro AC, refer to the *EVlink Pro AC Installation Guide* NNZ1940301.

- A. Power terminal block (the representation can differ according to the models)
- B. Ground terminal block, X1
- C. Contactor
- D. Input/cable gland for power cable
- E. Cable input for connectors E1-E11
- F. Connector for under-voltage release E10 / E11
- G. Connector for E5 / E6 vehicle detection input
- H. Connector for E3 / E4 deferred start input
- I. Connector for E1 / E2 power limit input
- J. Modbus connector E7 / E8 / E9
- K. USB connector
- L. Connector for DEM (Dynamic Energy Management) function through TIC interface (optional accessory for France only)
- M. Ethernet ports ETH1 / ETH2
- N. Ethernet and DEM signal cable inputs/cable glands

Status Indicator Light

The charging station status is indicated by a LED color code, described in the following table.

| Charging station status | | Type of light |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Administrator status | Open Bluetooth, ready for badge recording | 3.3s 0s |
| Charge point status | Available | |
| | Unavailable or Reserved | |
| Communication setup status | Bluetooth pairing in progress: pairing success Request of the terminal location via eSetup | ^{0s} Fixed green: charge point status |
| | Bluetooth pairing in progress: pairing failed | Fast blink green minimum 3 s Fast blink orange minimum 5 s Fixed green: charge point status |
| | Authentication in progress: authentication success | Fast blink minimum 2 s Fixed green: charge point status |
| | Authentication in progress: authentication failed | Fast blink green minimum 2 s Fixed green: charge point status |
| Charging status | Authentication success, waiting for EV to connect | |
| | Communication test between EV and charging station (deferred start) | us Blink minimum 200 ms |
| | EV plugged and in charge | 3.3s Os |
| | EV plugged, charge interrupted to save energy or for any reason unrelated to the EV | os Blink minimum 200 ms |
| | EV plugged, no charge with EV | Blink minimum 200 ms |
| Error | Internal error | Blink minimum 200 ms |
| | EV communication error | Blink minimum 200 ms |
| | Power meter communication error | Dink minimum 200 ms |
| | OCPP communication error | os Blink minimum 200 ms |

Electric Vehicle Troubleshooting

Electric Vehicle Does Not Charge on Domestic Socket

| Indicator light | Probable cause | Solution |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The indicator light is off. | The charging station is not supplied. | See EVlink Pro AC Indicator Light is Off, page 20. |
| The indicator light is dimming blue. | The T2S socket is used. | T2S socket takes priority. Wait the end of charging session on T2S socket. |
| The indicator light is green. | You are not authenticated. | Use a badge to get authenticated. |
| | | If no reaction of the charging station, try with another cable and another $EV.$ |
| | | If the issue remains: |
| | | Download the diagnostic report via eSetup (see how to download the diagnostic report, page 24). |
| | | 2. Contact Schneider Electric CCC and give: |
| | | the commercial reference of the charging station (see EVlink Pro AC Identification, page 11), |
| | | • its industrial serial number (see EVlink Pro AC Identification, page 11). |
| The indicator light is blinking blue with two flashes every 10 s. | The current circuit breaker (CCB) for the domestic socket has tripped. | Check the circuit breaker status: |
| | | If the circuit breaker has tripped, put it on. NOTE: The domestic socket maximal load value is between 6 A and 10 A, taking into account the country rule and the recorded configuration. If the issue remains: Download the diagnostic report via eSetup (see how to download the diagnostic report, page 24). Contact Schneider Electric CCC and give: the commercial reference of the charging station (see EVlink Pro AC Identification, page 11). |
| The indicator light is blinking blue with four flashes every 10 seconds. | Contactor is opened after a load management (EVCE, DEM, DI, OCPP or Modbus supervision). | In order to know the source of the load shedding, check: The error code on eSetup, or The load shedding report in the diagnostic |
| | | report. |
| | | installation. |
| | | 3. Check if the charging restarts. |
| The indicator light is red. | The charging station has detected an internal error. | See EVlink Pro AC Indicator Light is Off, page 20. |

Electric Vehicle Does Not Charge on T2S Socket

| Indicator light | Probable cause | Solution |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| The indicator light is off. | The charging station is not supplied. | See EVlink Pro AC Indicator Light is Off, page 20. |
| The indicator light is red. | The charging station has detected an internal error. | See EVlink Pro AC Indicator Light is Red, page 23. |
| The indicator light is green. | The EV cable is not well plugged in the T2S socket. | Plug the EV cable correctly in the T2S socket. |
| The indicator light is green. | You are not authenticated. | Use a badge to get authenticated. |
| | | If no reaction of the charging station, try with another cable and another electric vehicle. |
| | | If the issue remains: |
| | | Download the diagnostic report via eSetup (see how to download the diagnostic report, page 24). |
| | | 2. Contact Schneider Electric CCC and give: |
| | | the commercial reference of the charging station (see EVlink Pro AC Identification, page 11), |
| | | its industrial serial number (see EVlink Pro AC Identification, page 11). |
| The indicator light is fixed orange. | The charging station is unavailable | 1. Wait for 10 minutes. |
| | or reserved. | 2. Reboot the charging station. |
| | | Contact your charge point operator (CPO) to check why the charging station is unavailable. |
| The indicator light is blinking orange. | Badge is rejected. | Add the badge to the list of authorized badges with eSetup or EVCE. |
| The indicator light is blinking blue with | The EV is already charged. | N/A |
| | The EV does not charge for EV internal management reason. | Check the EV documentation. |
| | The EV does not charge because | Check the battery charge rate. |
| | the battery has a high charging threshold. | Check the EV documentation. |
| The indicator light is blinking blue with four flashes every 10 seconds. | The charging station has been interrupted by a conditional input. | Check with eSetup that the Digital input is activated, and which device drives the input. |
| 0s | The charging station has been interrupted by the current limitation | Check with eSetup that the current limitation is activated. |
| | function. | Check that the current limitation threshold is correct: |
| | | > 14 A for 3-phase charging stations, |
| | | • > 8 A for single-phase charging stations. |
| | | Modify the current limitation threshold if necessary. |
| | The charging station has been interrupted by a utility smart meter. | Check with eSetup that the dynamic energy management (DEM) function is activated. |
| | | Check the current withstand compared to the subscribed one. |
| | The charging station has been shed | 1. Check the status of the charging station on EVCE. |
| | by EVCE. | 2. Shed other loads from the installation. |
| | | 3. Check if the charging restarts. |
| | Ethernet communication has been lost between EVCE and the charging station. | Check Ethernet connection LEDs on IT switch or EVCE. |

Electric Vehicle Charges Too Slowly

| Indicator light | Probable cause | Solution |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.3s Os | The power of the charging station has been derated. | Check that charging station status on eSetup does not allow derating. Check the configuration of the DIL switch. |
| 3.3s | The current limitation input is active. | Check that current limitation on eSetup is not active. |
| | The deferred charge input is active. | Check on eSetup that deferred charge input is not active. |
| 3.3s Os | Dynamic energy management is active. | Check on eSetup that dynamic energy management is not active. |
| 3.3s Os | The maximum current allowed on the cable is low. | Check the maximum power allowed on label of the cables. |
| 3.3s Os | The power is limited by EVCE. | Check the power limitation on EVCE web page. |
| The indicator light is blinking blue with four flashes every 10 seconds. | Ethernet communication has been lost between EVCE and the charging station. | Download the diagnostic report via eSetup (see how to download the diagnostic report, page 24), or Look for error code in eSetup and consult the vendor error codes, page 25. |

Electric Vehicle Presence Input Does Not Work

To enable the electric vehicle presence notification through OCPP, the OCPP configuration must be on **True**. For more information, refer to *OCPP Protocol Connectivity Guide* (GEX1969200).

| Probable cause | Solution |
|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| The external contact is not connected on the correct input in the charging station. | Refer to EVlink Pro AC Installation Guide (NNZ1940301). |
| The configuration in eSetup is not at the right value (normally open or normally closed). | Check with eSetup, in Configuration > Digital inputs > Vehicle detection . |
| The input electrical circuit is cut or in short circuit. | Contact Schneider Electric CCC. |
| The control in the charging station is broken. | Contact Schneider Electric CCC. |

Electric Vehicle Cannot be Disconnected From T2S Socket

| Indicator light | Probable cause | Solution |
|-------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| The indicator light is green. | You are not authenticated. | Use a badge to get authenticated. |
| | | If no reaction of the charging station, try with another cable and another $EV.$ |
| | | If the issue remains: |
| | | Download the diagnostic report via eSetup (see how to download the diagnostic report, page 24). |
| | | 2. Contact Schneider Electric CCC and give: |
| | | the commercial reference of the charging station (see EVlink Pro AC identification, page 11), |
| | | • its industrial serial number, page 11. |
| The indicator light is blue. | The EV is still charging. | Wait for the end of charging. |
| 3.3s | The command of the lock is broken (circuit on mother board). | Contact Schneider Electric CCC. |
| | The lock on T2S socket is broken. | Contact Schneider Electric CCC. |
| | EVCE has suspended the charge. | Check the circuit breaker status: |
| | | If the circuit breaker has tripped, put it on. |
| | | If the issue remains: |
| | | Download the diagnostic report via eSetup (see how to download the diagnostic report, page 24). |
| | | 2. Contact Schneider Electric CCC and give: |
| | | the commercial reference of the charging station (see EVlink Pro AC Identification, page 11), |
| | | its industrial serial number (see EVlink Pro AC Identification, page 11). |

EVlink Pro AC Troubleshooting

EVlink Pro AC Indicator Light is Off

A A DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Wear appropriate personal protective equipment (PPE) and comply with safe electrical work practices. See NFPA 70E, CSA Z462, NOM-029–STPS or local equivalent.
- This equipment must be serviced only by qualified electrical personnel.
- Perform work only after reading and understanding all of the instructions contained in this document.
- In case of work or maintenance to be performed on electric devices with the power off, respect the LOTO (Lock Out Tag Out) procedure.
- The first LOTO safety step is to prepare for shutdown: identify the equipment that requires lockout, which sources of energy must be controlled, and what lockout device to be used. Notify all affected personnel.
- The second LOTO safety step is to shutdown the equipment.
- The third LOTO safety step is to isolate the equipment from its energy source: turn off all power supplying this equipment before working inside.
- The fourth LOTO safety step is to secure isolation of the equipment: attach lock out and/or tag out devices to each energy-isolating device.
- The fifth LOTO safety step is to check the absence of voltage: any potentially hazardous stored or residual energy must be made non-hazardous.
- Always use a properly rated voltage sensing device to confirm that all power is off.
- Do not modify the mechanical or electrical parts.
- Put back all devices, doors, and covers before turning on power to this equipment.
- Beware of potential hazards, and carefully inspect the work area for tools and objects that may have been left inside the equipment.

Failure to follow these instructions will result in death or serious injury.

| Status of internal LEDs on PCBs | Probable cause | Solution |
|---------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | EVlink Pro AC is not powered because one switchgear in the distribution line is open (not tripped). | 1. Close all switchgear powering EVlink Pro AC in the |
| | | Check the circuit breaker and put it ON if needed. |
| On | The indicator light connector is | 1 Open the EVlink Pro AC. (see Inside View, page 14) |
| | disconnected or in a bad wiring | Check the indicator light connector. |
| | sequence. | 3. If it is disconnected, reconnect it. |
| | | Check that the wires are connected in the correct sequence. |
| | Indicator light connector | Charging station Red Black Black Black |
| | The upstream CCB protecting the charging station has tripped due to an overcurrent. | Open the EVlink Pro AC. (see Inside View, page 14) Check the upstream CCB overload setting/rating versus charging station need (discrimination between distribution panel and EVSE current rating/ settings/physical derating see installation guide, refer to the EVlink Pro AC - Installation Guide (NNZ1940301)). |
| | | If the upstream CCB overload setting/rating is not correct, adjust the setting/rating and close the upstream CCB. |
| | | If the upstream CCB overload setting/rating is correct, look for any over current in the distribution line, for example, new load connected, short-circuit, cable damage. |
| Off | The RCD protecting the charging station has tripped due to iMNx | If the RCD is connected to an iMNx, the iMNx has sent an order to open the RCD. |
| | control. | 1. Open the EVlink Pro AC. (see Inside View, page 14) |
| | | 2. Power off/on the RCD. |
| | | 3. Charge again. |
| | | 4. If the iMNx trips the RCD just after closing, check the contactor and replace it if necessary. |
| | | If the problem is still here, see how to download the diagnostic report, page 24. |
| | | 6. Contact Schneider Electric CCC and give: |
| | | the commercial reference of the charging station, page 11. |
| | | • its serial number, page 11. |
| Off | The RCD protecting the charging station has tripped not due to iMNx control. | If the RCD is not connected to an iMNx or connected to an iMNx control but iMNx control is not the reason for tripping, there is an abnormal leakage current. |
| | | 1. Open the EVlink Pro AC. (see Inside View, page 14) |
| | | 2. Power on the RCD with EV disconnected. |
| | | If RCD does not trip during boot sequence, try to connect EV again: |
| | | • If it trips again, there is a leakage in the EV. |
| | | If it does not trip again, the issue was linked to a previous vehicle. |
| | | If RCD trips during boot sequence, contact Schneider Electric CCC. |

| Status of internal LEDs on PCBs | Probable cause | Solution |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| On | The indicator light is defective. | 1. If possible, try with another indicator light (from |
| | | If this is not possible, check if 24 VDC is present on the indicator light connector. |
| | | If 24 VDC is present, call Schneider Electric CCC to replace the indicator light. |
| Off | The internal fuse protecting the 24 Vdc power supply is blown. | Switch off the mains breaker. Open the EVlink Pro AC. (see Inside View, page 14) Check the internal fuse. If the fuse is blown, contact Schneider Electric CCC. |
| Ott | 24 VDC is not present to supply the indicator light (if mains voltage is present on input terminals and if fuse has not blown). | Open the EVlink Pro AC. (see Inside View, page 14) Check the presence of the 24 VDC on the indicator light connector. If 24 VDC is not present: Replace it with a power supply Meanwell reference IRM-60-24ST, or Contact Schneider Electric CCC for |

EVlink Pro AC Indicator Light is Red

If you can connect to EVlink Pro AC with eSetup:

- 1. Go directly to the chapter *Diagnostic Report*, page 24.
- 2. Download a report to check the error code.
- 3. Follow the procedure for each error code, page 26.

| Indicator light | Probable cause | Solution |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| One flash every 10 seconds | Internal error | Unplug the EV. Power off the charging station. Power on the charging station. If the red indicator remains, stop using the charging station. Contact the local maintenance team to download the diagnostic report via eSetup. (see how to download the diagnostic report, page 24). Contact Schneider Electric CCC. Unplug the cable. Plug it in again. If the red indicator remains, try to use another cable, another EV, or another EV simulator. Download the diagnostic report, page 24). If the red indicator remains, contact Schneider Electric CCC. |
| Three flashes every 10 seconds | Power meter communication error Three different option: Internal power meter External power meter (energy management/global measuring External power meter (dedicated to the charging station) | Check the connection to the power meter. 1. If the power meter is off: If the power meter is internal, contact Schneider Electric CCC. If the power meter is external, check: the connection, the activity and the configuration of the RS85 connector (two wires) or the RJ45 connector the panel server, if used If the red indicator remains: Download the diagnostic report via eSetup. (see how to download the diagnostic report, page 24) Contact Schneider Electric CCC and give: the commercial reference of the power meter, the serial number of the charging station, page 11. |
| Four flashes every 10 seconds | OCPP communication error | If EVCE is present: Check that the EVCE device is on. Check the EVCE dashboard. Check the IT infrastructure between EVCE and EVSE (including routing devices). If the charging station is connected to supervision: Check that the model is on. In case of wireless modem, check the signal strength. Check the IT infrastructure between the modem and EVSE (including routing devices). If the issue remains, download the diagnostic report via eSetup. (see how to download the diagnostic report, page 24) and contact Schneider Electric CCC. |

Diagnostic Report

Description

The diagnostic report indicates important information for Schneider Electric Customer Care Center to assess the issue (configuration problem, troubleshooting, random or permanent issue). It is recommended to download a diagnostic report at the beginning of any troubleshooting intervention and to have the log just after the issue appears.

There are 3 types of error indications:

- Error: the charge is stopped, and the indicator light of the charging station is red.
- Warning: there is an error, and the charging station creates a log, but the charging does not stop.
- Functional log: only information for Schneider Electric, and the charging does not stop.

The diagnostic report gives the following general information:

- Product information
- Network
- Configuration
- Charge management
- · Software versions

How to Download the Diagnostic Report

You can download the diagnostic report with the 2 following methods:

- Opening eSetup application on your smartphone (Refer to the video How to diagnose an EVlink Pro AC issue with eSetup.):
 - 1. Click on Get the complete diagnostic report > Export and protect with password

| Il Orange F 4G | 15:45 | 74 % 🔳 |
|------------------|-------------------------|--------|
| Back | EVlink Pro AC | ŝ |
| | | |
| () | Identify the charger | |
| How do you wan | t to name the Charger ? | |
| EVlink Pro AC | - 13F6B | |
| Configure | | > |
| Import configura | tion | > |
| | Export configuration | |
| Get the | complete diagnostic n | eport |
| s | ee all previous report | |

- 2. Save the diagnostic report on your smartphone.
- Using the EV Charging Expert. Refer to the *EcoStruxure*[™] *EV* Charging *Expert User Guide* (DOCA0163).

Vendor Error Codes

Error codes can be raised by the charging station. These error codes can be found on eSetup.

To find the error code:

- 1. Select the charging station status Faulted.
 - eSetup displays the charging station status.
- 2. The active error code is indicated. Select the information logo close to the error code to get the meaning of this code.
 - eSetup displays the error description.

The table below details the error codes that can be raised by the charging station.

| Error code, page for the corresponding procedure | Generic error name | Specific error name | Error description |
|-----------------------------------------------------------|--------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.0, page 26 | | Capacity out of range | Bad configuration of the microswitch. |
| 1.1 | Software Configuration | Firmware downgrade | Charging station detects that the software version is lower than expected. |
| 1.2 | | Software downgrade | Charging station detects that the software version is lower than expected. |
| 2.0, page 26 | | Mother board issue | Issue with EVSE hardware. |
| 2.1, page 26 | | Physical derating issue | Invalid physical derating configuration OR change of physical derating configuration during charge. Configure the microswitch according to the Installation Sheet. |
| 2.2 | Hardware Configuration | Plug issue 6 mA | 6 mA plug missing. |
| 2.3 | | Plug issue 15118 | 15118 plug missing. |
| 2.4 | | Front cover opened | Front cover opened. |
| 2.5 | | Issue on temperature Sensor | Issue with the temperature sensor. Only for Eichrecht commercial references. |
| 3.0, page 26 | Upstream Protection Devices | MNX tripping | Trip of MNX / Contactor discordance. |
| 4.0, page 26 | RDC_DD | RDC DD (6 mA) measurement board error | RDC DD internal device reports an internal error. |
| 5.0, page 26 | 6mA_Detection | 6mA DC leakage detected | DC leakage value higher than 6 mA. |
| 6.0, page 27 | Metering | Input voltage issue | Phase synchronization defect or input voltage or frequency error. |
| 6.1, page 27 | | Internal Metering card issue | At least one metering fault has been detected. |
| 7.0, page 27 | PowerMeter | Internal Power Meter communication loss | Loss of communication with Modbus power meter for metering (either internal or external), for 3 consecutive unsuccessful attempts. |
| 7.1 | | Dataset issue | Verificaton of the dataset signature failed or Others dataset error. |
| 8.0, page 27 | Bluetooth | Bluetooth communication issue | Issue with Bluetooth processor: communication lost or update impossible. |
| 9.0, page 27 | Badge reader | Badge reader issue | Loss of communication with the RFID, NFC reader. |
| 10.0 | | EV issue : Control Pilot (CP) | Communication fault with a Mode 3 / T2 vehicle ("CP" error: Control Pilot). |
| 10.1 | EV_ISSUES | Plug Presence (PP) conformity | Cable status wrong (the value of the coding resistor "PP" is wrong). |
| 10.2 | | EV issue : Short-circuit CPW | Charging fault short-circuit on Control Pilot Wire. |
| 11.0, page 27 | Outlet | Lock/Unlock cable Failure | Wrong handling during the plug/unplug of the socket, or motor blocked. |

| Error code, page for the corresponding procedure | Generic error name | Specific error name | Error description |
|-----------------------------------------------------------|-----------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12.0, page 27 | Contactor | Contactor Discordance | Contactor is not in the requested state: welded or blocked in open position. |
| 13.0, page 27 | Phase_discordance | Load three-phase compliancy | Three phases charging not allowed in simplified mode 3. |
| 14.0, page 27 | Overcurrent | EV Overcurrent | Overcurrent or overload charging fault due to EV. |
| 15.0, page 27 | VENTILATION_NOT_ ALLOWED | Ventilation Not Allowed | Battery gas leakage risk. Car asking ventilation that is not compatible with our products. |
| 16.0, page 27 | EVCE | EVCE communication loss | Supervision communication lost between EV Charging Expert and the charging station. |
| 17.0, page 27 | OCPP | Supervision (OCPP) issue | Communication or configuration of Supervision (OCPP) issue. |
| 17.1, page 27 | OCPP | CPO communication lost | The communication between the charge point operator (CPO) and the charging station is lost but the Charging station is not in error. Load is authorized when offline. |
| 18.0, page 28 | EM | Dynamic Energy management communication loss : TIC | Communication lost with external device for energy management (TIC). |
| 18.1, page 28 | | Dynamic Energy management communication loss : Modbus meter | Communication lost with external device for energy management (Modbus meter). |
| 19.0 | Temperature | Temperature out of the authorized range | Temperature too high or too low. Only for Eichrecht commercial references. |

Procedure for Each Error Code

The following table indicates the procedure to follow for each error code.

| Error code | Solution |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.0 | Check in eSetup that eSetup configuration does not allow derating. |
| | Check the configuration of the DIL switch (see description in EVlink Pro AC - Installation Guide (NNZ1940301)). |
| 1.1, 1.2 | Check the software version. |
| 2.0 | Save the diagnostic report. If there is a cord connected, disconnect the cord and restart the charging station. If the error code remains, contact Schneider Electric CCC. |
| 2.1 | Configure the microswitch (see description in <i>EVlink Pro AC - Installation Guide</i> (NNZ1940301)). If the error code remains, contact Schneider Electric CCC. |
| 3.0 | For EVlink Pro AC with MR part number, check the type of default on eSetup. For other EVlink Pro AC charging stations: Check if MNx has tripped. If contactor is in on position: Replace the contactor, or Contact Schneider Electric CCC. |
| 4.0 | Unplug the EV. Power off the charging station. Power on the charging station. If the error code remains, stop using the charging station and contact Schneider Electric CCC. |
| 5.0 | If this error occurs during EV charge: 1. Unplug the connection to the EV. 2. Check that the EVlink Pro AC indicator light is green. 3. Contact Schneider Electric CCC. |

| Error code | Solution |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.0 | For EVlink Pro AC: With RCD embedded, check in eSetup that phases connection is set on three-phase. Without RCD embedded, check in eSetup that phases connection is set on single-phase |
| 6.1 | Switch off the charging station. Switch it again. If the error code remains, change the charging station. |
| 7.0 | Check if there is information on MID power meter display. Contact Schneider Electric CCC. |
| 8.0 | Check FAQ on se.com on to fix the issue. If the error code remains, contact Schneider Electric CCC. |
| 9.0 | Restart the charging station. Present a badge in front of the charging station. If the error code remains, contact Schneider Electric CCC. |
| 10.0, 10.1, 10.2 | If you have an EV simulator, try to use the charging station with an EV simulator: If the error code disappears, try with another cable or another EV. If the error code remains, contact Schneider Electric CCC. If you do not have an EV simulator: Unplug the cable. Plug the cable again. If the error code remains, contact Schneider Electric CCC. |
| 11.0 | If the error code is displayed when the cable is not connected, restart the charging station. If the error code is displayed when the cable is connected: Unplug the cable. Plug the cable again. If the error code remains, replace the cable. If the error code remains, contact Schneider Electric CCC. |
| 12.0 | Turn off the charging station. Check if the contactor opens and closes properly. If the contactor opens and closes properly: Replace the charging station, or Contact the Field Service Representative. |
| 13.0 | EV is not compliant with the IEC 61851 ed 3 and with the charging station. |
| 14.0 | Try using the charging station with another EV: If the error code disappears, the problem was due to the previous EV. If the error code remains, the charging station needs to be replaced. Contact Schneider Electric CCC. |
| 15.0 | EV ventilation system is not compliant with EVlink Pro AC charging station. |
| 16.0 | Check that the EVCE device is on. Check the EVCE dashboard. Refer to the EVCE troubleshooting guide. Check the IT infrastructure between EVCE and EVSE (including routing devices). |
| 17.0 | Check the Ethernet connection. Check the response to the ping test of the IP address of the charging station. Check that the configuration parameters for supervision are correct. If a modem is present, check that the modem parameters are correct. If the error code remains, see how to download the diagnostic report via eSetup, page 24, and contact Schneider Electric CCC. |
| 17.1 | Check that the modem, the router and the IT switch are on. Check the IT infrastructure. In case of wireless modem, check the signal strength. |

| Error code | Solution |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 18.0 | 1. Check that the TIC communication LED is on. |
| | 2. If the LED is off, check the wires between the charging station and the Linky meter. |
| 18.1 | Check that the communication parameters between the charging station and the power metering device are correct. |
| | 2. Check that the external wiring is correct. |
| | 3. If necessary, replace the external power meter. |
| | 4. If external power meter is working properly, replace the charging station. |

eSetup Troubleshooting

eSetup Presentation

eSetup application helps you to configure the Pro AC charging stations and to diagnose potential problems using Pro AC charging stations.

eSetup for electricians is an application that can be downloaded on Google Store and Apple Store.

Charging Station Configuration With eSetup

For the charging station configuration, follow the instructions of the *EVlink Pro AC Installation Guide* (NNZ1940301) and refer to the video showing how to commission EVlink Pro AC Charging Station with eSetup.

Add User Badges

To add badges, refer to *EVlink Pro AC Installation Guide* (NNZ1940301) and refer to the video showing how to commission EVlink Pro AC Charging Station with eSetup.

Connection to the Charging Station

Prerequisites for Using Bluetooth Communication

The prerequisites for using a Bluetooth communication are:

- The charging station light indication must be green, indicating that the charging station is powered, with Bluetooth communication activated. If the light indication is not green, see status light indicator, page 15.
- You must have a smartphone running the eSetup application.
- The smartphone must support Android 4.4 or iOS 9 or above, and be compatible with Bluetooth wireless technology.
- You must have access to the charging station, and be physically within an open field range of 15 meters for the duration of the connection.

Establishing a Bluetooth Connection

Follow the procedure below to establish a Bluetooth connection from your smartphone to the charging station.

- 1. Start eSetup application on your smartphone.
- 2. Tap the admin badge on the RFID reader of the charging station. See exterior view of the charging station.
 - Result: the Bluetooth connection is established. The connection closes automatically two hours after the closing of an eSetup configuration session.
- 3. Enter the PIN code (six digits).

I Cannot See the Charging Station on eSetup

| Probable cause | Solution | |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Bluetooth communication is not activated on the charging station. | If the admin badge was never created, reboot the charging station. Result: you have two hours with Bluetooth activated. | |
| | If you have an admin badge created, scan it. Result: you have 10 minutes with Bluetooth activated. | |
| Bluetooth communication is not activated on the smartphone or tablet. | Check your device. | |
| The charging station is connected to eSetup of another user. | Check if another user around 20 meters of the charging station is connected to it. | |
| You are too far from the charging station. | Go closer to the charging station. | |
| You are on demo mode on eSetup. | Deactivate demo mode on eSetup. | |
| The charging station is out of order. | If the EVIink Pro AC indicator light is off, see the chapter EVIink Pro AC Troubleshooting, page 20. | |
| | If the EVlink Pro AC indicator light is red, see the chapter EVlink Pro AC Troubleshooting, page 23. | |
| The charging station has already been configured by another user. | Reactivate the Bluetooth connection with an admin badge. See how to establish a Bluetooth connection, page 29. | |
| Physical derating configuration is invalid or physical derating configuration has been changed during | Configure the microswitch according to the EVlink Pro AC Installation Guide (NNZ1940301) | |
| charge. | If the problem is not on the microswitch, change the charging station. | |
| You are using an Android version lower than 12. | Activate the localization function. | |

I Have a Problem With the Password

| Probable cause | Solution | | |
|-------------------------------------------|---------------------------------------------------------------------------------|----------------------------|----|
| You have forgotten the password. | Reset the PIN code. Refer to the EVlink Pro AC Installation Guide (NNZ1940301). | | |
| You have the wrong PIN code. | Recover the correct PIN | code or reset the PIN code | e. |
| You have entered several wrong PIN codes. | Wait the end of time out after several wrong PIN codes, or reset the PIN code. | | |
| _ | Number of failed attempts | Next allowed login attempt | 1 |
| | < 3 | Now | |
| | 3 | Now + 5 minutes | |
| | 4 | Now + 15 minutes | |
| | 5 | Now + 30 minutes | _ |
| | > 5 | Now + 60 minutes | |
| | | | |

I Have a Problem With the Admin Badge

| Indicator light | Probable cause | Solution |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Orange blinking | Your admin badge is not recorded. | Reboot the charging station. You have two hours with Bluetooth activated. Connect on eSetup with the charging station. Create your admin badge. |
| No light change when you scan the badge | Your admin badge is broken. | Try the badge with a smartphone application or with another charging station. If it still does not work, take another badge. |
| Red | The RFID reader of the charging station is broken. See exterior view of the charging station. | Download the diagnostic report via eSetup (see how to download the diagnostic report), or Look for error code in eSetup and consult the vendor error codes, page 25. |

I Cannot Record Badges With eSetup

| Indicator light | Probable cause | Solution |
|--------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| No reaction or orange blinking | Badge is not compliant with EVlink RFID reader. | To determine the standard of your badge, scan it with smartphone application. |
| | | Compare your badge with our list of compliant badge standards. |
| Red light | The RFID reader of the charging station is broken. See exterior view of the charging station. | Download the diagnostic report via eSetup (see how to download the diagnostic report, page 24), or |
| | | Look for error code in eSetup and consult the vendor error codes, page 25. |

I Have a Problem With the User Badge

| Indicator light | Probable cause | Solution |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Orange blinking | Your user badge is not recorded. | Record your badge in the charging station (see the chapter <i>EVlink Pro AC Troubleshooting</i> , page 20). |
| Orange blinking | Charge started with another badge and the charging station is configured in lock in public environment. | Use the same badge as the one which initiated the charging cycle. |
| Orange blinking | Supervision is out of service and offline mode is only badge in the cache list . | You need a badge that already charged once with supervision online. |
| Red | Supervision is out of service and offline mode is all badges rejected . | Download the diagnostic report via eSetup (see how to download the diagnostic report, page 24), or Look for error code in eSetup and consult the vendor error codes, page 25. |
| No light change when you scan the badge | Your user badge is broken. | Try the badge with a smartphone application or with another charging station. If it still does not work, take another badge. |
| Red | The RFID reader of the charging station is broken. See the exterior view of the charging station. | Download the diagnostic report via eSetup (see how to download the diagnostic report, page 24), or Look for error code in eSetup and consult the vendor error codes, page 25. |

Glossary

С

CCB: Current circuit breaker

CCC: Customer Care Center

CPO: Charge point operator

D

DEM: Dynamic Energy Management

Diagnostic report: Contains important information for Schneider Electric Customer Care Center to assess the issue with the EVlink Pro AC charging station.

Ε

EVCE: Electric Vehicle Charging Expert. Electric vehicle charging infrastructure load management, access management and supervision solution. Formerly known as EVIink Load Management System.

EV: Electric vehicle

EVSE: Electric Vehicle Supply Equipment. Electric vehicle charging station and equipment necessary to charge the electric vehicle.

0

OCPP: Open Charge Point Protocol. An application protocol for communication between electric vehicle charging stations and a central management system, also known as a charging station network, similar to cell phones and cell phone networks.

R

RCD: Residual Current Device. Safety device that switches off electricity automatically if there is a fault.

T

TIC: Tele-information customer

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