

## ESERA-Station 200 Commissioning I VNC IPS Manual

- Open system hardware and software central control for smart home, building automation, IoT and commercial automation
- Hybrid structure consisting of embedded computer and 1-Wire Gateway
- Powerful, modern quad core computer with 1.4GHz CPU speed
- Fast readout of all 1-Wire devices in 1-2 seconds cycle
- Data exchange between 1-Wire Gateway and computer via Modbus or text protocol
- Extensive 1-Wire libraries for sensors and actuators
- 2 x binary output 16A
- 2 x binary input 10-30VDC
- 2 x system clocks with power failure buffer
- Comfortable configuration program for 1-Wire Gateway and interface parameters
- 24V power supply for embedded computer and 1-Wire Gateway
- Designed for all 1-Wire network sizes
- Top-hat rail housing for control cabinet installation



### 1 INTRODUCTION

Before you start to install the ESERA-Station 200 and put the device into operation, please read these operating instructions carefully through to the end, especially the section on safety instructions.

### 2 PRODUCT DESCRIPTION

The ESERA-Station is a modern and open system hybrid system consisting of two modules, a powerful 1-Wire gateway and an embedded computer.

Both modules are internally connected via serial data interface and power supply.

Each module has its own power supply unit and a system clock (real time clock) with power failure buffering by a low-maintenance high-performance capacitor (gold cap). Die ESERA-Station ist ein modernes und systemoffenes Hybridsystem, dass aus zwei Baugruppen, einem leistungsfähigen 1-Wire Gateway und einem Embedded Computer.

### 3 IP-ADRESSES

On delivery, the ESERA-Station is set to DHCP for LAN and WLAN interface.

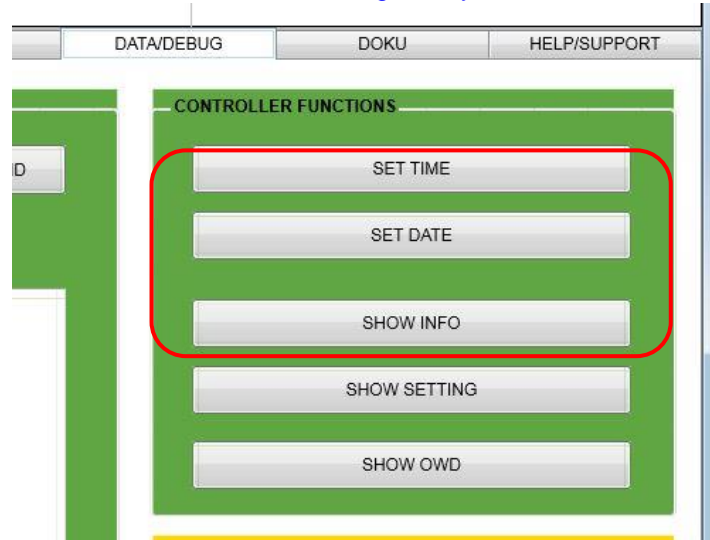
## 4 COMMISSIONING

Please start with the commissioning of ESERA-Station 200 with the 1-Wire Gateway. To do so, connect to the Config Tool 3 via USB cable, which you can download from our website. Here you will find the Config Tool 3: <https://www.esera.de/produkte/software/downloads-firmware-1-wire-controller-1-wire-gateway/>

Important:

Please start updating the time and date when commissioning the 1-Wire gateway.

For more details on commissioning, please refer to the "How To" videos on our website, here: <https://www.esera.de/service-support/how-to-support-videos/>

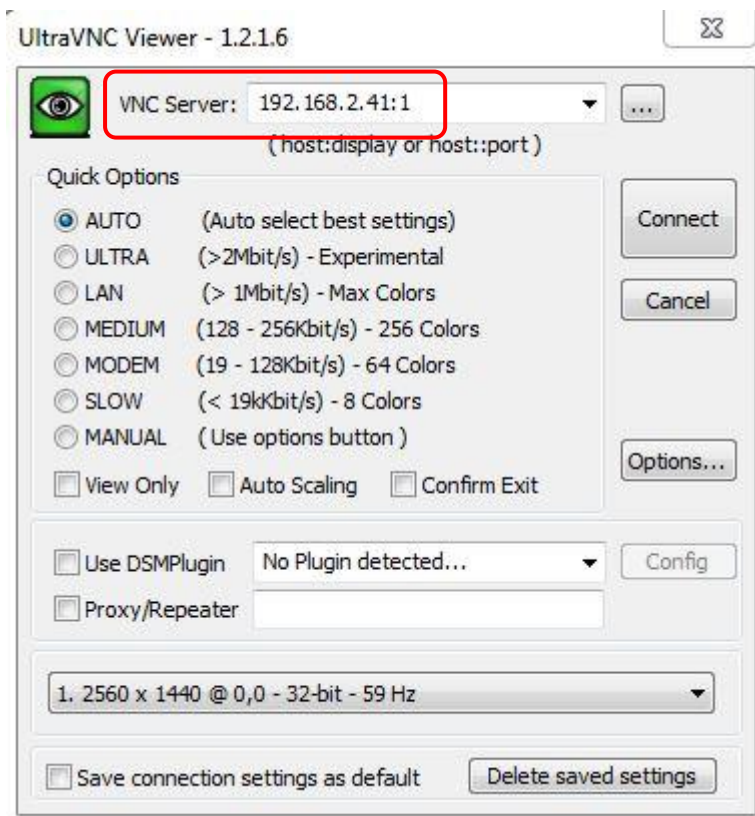


## 5 VNC ACCESS

You can directly access the ESERA-Station via VNC. The thingtvcnc is pre-installed on the ESERA-Station. For access via PC, we recommend the free UltraVNC.

Here you will find the Ultra VNC Software: <http://www.uvnc.com/home.html>

You can find installation instruction here: <http://www.uvnc.com/install/installation.html>



Access data:

To connect to the ESERA-Station, enter the IP address and "1".  
(IP address:1)

Before IP Symcon v7:  
**Password: eseravnc**

Starting from IP Symcon v7:  
**Password: eserassh**

The resolution is fixed at 1280x800 by default. After you have logged in, please set a new password

New password for the VNC access:  
Start the LX Terminal and enter the command:

**vncpasswd**

## 6 ACCESS DATA

Below are the access data for accessing the Linux operating system

**User:** pi  
**Password:** esera

**SSH Access** (Default disabled)

**User:** pi  
**Password:** eserassh

### 6.1 IP-SYMCON OPERATION

The IP-Symcon WebFront (web interface) should be accessible at <http://IP-Adress:3777/>.

The IP-Symcon administration console (ips\_console.exe) can be used for configuration via IP address and port 3777 if the IP-Symcon server is not found automatically.

How to start and stop the IP-Symcon-Service?

```
sudo /etc/init.d/symcon start
sudo /etc/init.d/symcon stop
sudo /etc/init.d/symcon restart
```

Where can I find what?

```
/usr/bin/symcon – Executable
/usr/share/symcon/ - Static Data (IP-Symcon Installation)
/var/lib/symcon/ - Variable Data (Settings, Scripts, Media..)
/var/log/symcon/ - Log Files (Logfiles...)
```

How can I check if the service is running correctly?

```
sudo ps x | grep symcon
```

How can I view/trace the logfile?

```
tail -f /var/log/symcon/logfile.log
```

To bring IP-Symcon up to date without upgrading to a new version, use the following commands via the terminal.

```
sudo apt-get update
sudo apt-get upgrade
```

You can upgrade to a new version, e.g. from IP-Symcon V4.4 to 5.0, with the following command.

Please note that this command will upgrade not only IP-Symcon but also the entire Linux distribution.

```
Sudo apt-get dist-upgrade
```

### 6.2 IP-SYMCON SOFTWAREMODULS

In order to integrate the ESERA 1-Wire controller, 1-Wire gateway and ESERA-Station 200 into IP-Symcon, we provide libraries via Github server..

#### ESERA IP-Symcon Moduls

<https://github.com/ESERA-Automation/IPS-Module.git>

### 6.3 IP-SYMCON IN ESERA STYLE

To switch IP-Symcon to the ESERA style, we provide libraries via a github server. In the delivery state of ESERA-Station 200, the skin "ESERA Green" is already activated.

#### ESERA Skins for IP-Symcon

We provide three different green skins via github server

Dark Green

[git://github.com/ESERA-Automation/ESERA-skin-dark-green.git](https://github.com/ESERA-Automation/ESERA-skin-dark-green.git)

## 7 ASSEMBLY

The installation site must be protected from moisture. The device may only be used in dry indoor rooms. The device is intended for mounting inside a switch cabinet as a stationary device.

## 8 DISPOSAL



Electronic devices must not be disposed of with household waste. According to the directive on waste electrical and electronic equipment, electronic devices must be disposed of at designated local collection points for electronic waste. These collection points are specialized facilities that ensure electronic devices are properly recycled and reused to minimize potential environmental impacts and recover valuable resources.

Please note that the specific collection points and procedures for disposing of electronic devices may vary depending on the region. Therefore, consult local authorities, recycling centers, or waste disposal companies to learn the correct procedure for disposing of electronic devices in your area. By properly disposing of electronic devices, you contribute to environmental protection and the sustainable use of resources.

## 9 SAFETY INSTRUCTIONS

When dealing with products that come into contact with electrical voltage, it is very important to observe the applicable VDE regulations. The VDE regulations are standards set by the Association for Electrical, Electronic & Information Technologies (VDE) and are designed to ensure safety when working with electrical systems and devices.

Here are some of the relevant VDE regulations to consider when handling electrical voltage:

### VDE 0100

This standard defines the general provisions for low-voltage electrical installations, including planning, installation, commissioning, maintenance, and testing.

### VDE 0550/0551

These standards address the safety of electrical household appliances and similar purposes. They cover requirements for household devices such as hairdryers, irons, coffee machines, etc.

### VDE 0700

This standard focuses on the safety of electrical devices in commercial, industrial, and similar environments. It includes requirements for electrical machines, tools, and other devices used in these settings.

### VDE 0711

This standard specifies requirements for the electrical safety of medical devices. It applies to medical equipment used for diagnosing, treating, and monitoring patients.

### VDE 0860

This standard covers the safety of electronic devices used in office applications, including computers, printers, monitors, etc.

It is important that professionals working with electrical systems and devices are familiar with and follow the relevant VDE regulations to ensure the safety of people and property.

### Basic Safety Rules

When working on electrical devices, always observe basic safety rules.

- **All connection or wiring work must be carried out in a de-energized state.**  
It is a fundamental safety measure that all connection and wiring work on electrical systems and devices should only be done when they are not live. Never work on electrical devices while they are powered.

- Before starting work, check that the device is disconnected by unplugging it or turning off the relevant power supply.
- Be especially cautious when handling high voltages and be aware of potential hazards.
- Always unplug the device or ensure it is de-energized before opening it.
- Components, assemblies, or devices must only be operated if they are safely enclosed. They must be de-energized during installation.
- Tools may only be used on devices, components, or assemblies when it has been ensured that they are disconnected from the power supply and any electrical charges stored in the device have been discharged.
- Power cables or lines connected to the device, component, or assembly must always be inspected for insulation faults or breaks.
- If a fault is found in the supply line, the device must be immediately removed from service until the faulty line is replaced.
- When using components or assemblies, always strictly adhere to the specified electrical values mentioned in the accompanying documentation.
- If it is unclear which electrical ratings apply to a component or assembly, how external wiring should be carried out, or which external components or accessories may be connected and their connection values, a qualified electrician must be consulted.
- Before commissioning a device, always verify that the device or assembly is suitable for the intended application.
- In case of doubt, always consult experts, professionals, or the manufacturer of the used assemblies.
- We assume no liability for damages resulting from operational or connection errors beyond our control.
- Kits that do not function properly should be returned without the housing and with a detailed description of the error and the corresponding assembly instructions. Repairs cannot be made without an error description. Time-consuming assembly or disassembly of housings will be additionally charged.
- When installing and handling parts that will later carry mains voltage, always observe the relevant VDE regulations.
- Devices operating at voltages greater than 35 VDC/12mA must only be connected and commissioned by qualified electricians.
- Commissioning should only take place if the circuit is installed in an enclosure that prevents accidental contact.
- If measurements must be taken with the housing open, a safety isolating transformer or suitable power supply must be used for safety reasons.
- After installation, a required inspection must be conducted in accordance with DGUV Regulation 3 (formerly known as BGV A3).

DGUV Regulation 3 is a safety regulation for electrical systems and equipment and defines the requirements for electrical safety.

The DGUV Regulation 3 inspection includes checking the proper installation, functionality, and safety of the electrical device.

The inspection should be carried out by a qualified electrician or an authorized inspection service. The purpose of the inspection is to identify potential hazards, detect defects, and take appropriate measures to ensure electrical safety.

The DGUV Regulation 3 inspection should be repeated at regular intervals to ensure the continuous safety of electrical systems and equipment.

The DGUV Regulation 3 inspection is legally required in many countries and serves to protect people and property from electrical hazards.

Also, be aware of additional national and local regulations and standards that may apply in your region.

## 10 WARRANTY

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WEEE NUMBER: DE30249510