



## esera 11324 1 Wire Gateway 10 Modbus RTU User Guide

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**esera 11324 1 Wire Gateway 10 Modbus RTU**



## Product Information

The 1-Wire Gateway (Art. № 11324) is a device designed for stand-alone communication between a Programmable Logic Controller (PLC) and a 1-Wire sensor and actuator network. It allows for fast readout of all 1-Wire devices in a 1-2 seconds cycle and data output via Modbus RTU (RS485) protocol. The processed sensor and actuator data can be retrieved, and the status of each sensor and actuator can be monitored. The device comes with a convenient configuration program and does not require any additional drivers. Additionally, it provides voltage supply for the 1-Wire network and optional data storage in case of interruption of communication to the control system / host system.

## Product Usage Instructions

1. The 1-Wire Gateway is intended for autonomous management of a 1-Wire network. You no longer need to worry about 1-Wire commands or formulas for evaluating sensor data.
2. The device must be mounted inside a control cabinet as a stationary device. The mounting location must be protected against moisture, and the device may only be used in dry indoor areas.
3. Do not dispose of the unit in household waste! Electronic devices must be disposed of at the local collection points for electronic devices in accordance with the Directive on Waste Electrical and Electronic Equipment!
4. When handling products that come into contact with electrical voltage, the applicable VDE regulations must be observed, in particular VDE 0100, VDE 0550/0551, VDE 0700, VDE 0711 and VDE 0860.
5. All final or wiring work must be carried out with the power turned off. Before opening the device, always unplug or make sure that the unit is disconnected from the mains.
6. Components, modules or devices may only be put into service if they are mounted in a contact proof housing.

During installation, they must not have power applied.

7. Tools may only be used on devices, components or assemblies when it is certain that the devices are disconnected from the power supply and electrical charges stored in the components inside the device have been discharged.
8. Live cables or wires to which the device or an assembly is connected must always be tested for insulation faults or breaks.

## **1-Wire Gateway 10 Modbus RTU**

- 1-Wire gateway for stand-alone communication between PLC and a 1-Wire sensor and actuator network
- Fast readout of all 1-Wire devices in a 1-2 seconds cycle
- Data output via Modbus RTU (RS485) protocol
- Processed sensor and actuator data
- Status of each sensor and actuator can be retrieved
- Convenient configuration program
- No additional drivers necessary
- Optional data storage in case of interruption of communication to the control system / host system
- Voltage supply for 1-Wire network

## **Introduction**

Thank you for choosing a device from ESERA.

The 1-Wire gateway is designed for autonomous management of a 1-Wire network. You no longer need to worry about 1-Wire commands or formulas for evaluating sensor data.

### **Note**

The module may only be operated at the voltages and ambient conditions provided for it. The operating position of the device is arbitrary.

The modules may only be put into operation by a qualified electrician.

For further information on the operating conditions, see the following instructions under “Operating conditions” in the User Guide.

### **Note**

Before you start assembling the device and putting the product into operation, please read this Quick Guide carefully until the end, especially the section on safety instructions.

Please download the complete

User Guide in PDF format from our website.

In the detailed User Guide you will find further information about the device, installation, function and operation.

The User Guide, connection diagram and application examples can be found at

<https://download.esera.de/pdflist>

If you have problems with downloading the documents, please contact our support by mail at [support@esera.de](mailto:support@esera.de)

We are very careful to act in an environmentally friendly and resource saving way for you. That is why we use paper and cardboard instead of plastics wherever possible.

We would also like to make a contribution to the environment with this Quick Guide.

## **Assembly**

The mounting location must be protected against moisture. The device may only be used in dry indoor areas. The device is intended for mounting inside a control cabinet as a stationary device.

## Disposal note

Do not dispose of the unit in household waste! Electronic devices must be disposed of at the local collection points for electronic devices in accordance with the Directive on Waste Electrical and Electronic Equipment!

## Safety instructions

- When handling products that come into contact with electrical voltage, the applicable VDE regulations must be observed, in particular VDE 0100, VDE 0550/0551, VDE 0700, VDE 0711 and VDE 0860.
- All final or wiring work must be carried out with the power turned off.
- Before opening the device, always unplug or make sure that the unit is disconnected from the mains.
- Components, modules or devices may only be put into service if they are mounted in a contact proof housing. During installation they must not have power applied.
- Tools may only be used on devices, components or assemblies when it is certain that the devices are disconnected from the power supply and electrical charges stored in the components inside the device have been discharged.
- Live cables or wires to which the device or an assembly is connected, must always be tested for insulation faults or breaks.
- If an error is detected in the supply line, the device must be immediately taken out of operation until the faulty cable has been replaced.
- When using components or modules it is absolutely necessary to comply with the requirements set out in the accompanying description specifications for electrical quantities.
- If the available description is not clear to the non-commercial end-user what the applicable electrical characteristics for a part or assembly are, how to connect an external circuit, which external components or additional devices can be connected or which values these external components may have, a qualified electrician must be consulted.
- It must be examined generally before the commissioning of a device, whether this device or module is basically suitable for the application in which it is to be used.
- In case of doubt, consultation with experts or the manufacturer of the components used is absolutely necessary.
- For operational and connection errors outside of our control, we assume no liability of any kind for any resulting damage.
- Kits should be returned without their housing when not functional with an exact error description and the accompanying instructions. Without an error description it is not possible to repair. For time-consuming assembly or disassembly of cases charges will be invoiced.
- During installation and handling of components which later have mains potential on their parts, the relevant VDE regulations must be observed.
- Devices that are to be operated at a voltage greater than 35 VDC / 12mA, may only be connected by a qualified electrician and put into operation.
- Commissioning may only be realized if the circuit is built into a contact proof housing.
- If measurements with an open housing are unavoidable, for safety reasons an isolating transformer must be installed upstream or a suitable power supply can be used.
- After installing the required tests according to DGUV / regulation 3 (German statutory accident insurance,

[https://en.wikipedia.org/wiki/German\\_Statutory\\_Accident\\_Insurance](https://en.wikipedia.org/wiki/German_Statutory_Accident_Insurance)) must be carried out.

## Warranty

Informationen zu älteren Versionen benötigen, melden Sie sich per Mail an [info@esera.de](mailto:info@esera.de)

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## Documents / Resources

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|  | <p><a href="#">esera 11324 1 Wire Gateway 10 Modbus RTU [pdf] User Guide</a></p> <p>11324 1 Wire Gateway 10 Modbus RTU, 11324, 11324 10 Modbus RTU, 1 Wire Gateway 10 Modbus RTU, Gateway 10 Modbus RTU, Gateway Modbus RTU, 10 Modbus RTU, Gateway, Modbus RTU</p> |
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## References

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