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Energy Logger D550

Quick Guide

Supplement to the operating manual

- Installation
- Communication settings via Ethernet
- "ecoExplorer go" software settings (see link and QR code)



http://wmqr.eu/242552

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Deutsche Version
siehe Vorseite

Disclaimer

The observance of the information products for the devices is a prerequisite for safe operation and to achieve the stipulated performance characteristics and product characteristics. Weidmüller Interface GmbH & Co. KG accepts no liability for injuries to personnel, property damage or financial losses arising due to a failure to comply with the information products.

Ensure that your information products are accessible and legible.

Further documentation can be found on our website www.weidmuller.de.

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General information

This "Quick guide" does not replace the operating manual. First, please read and ensure that you understand the operating manual that accompanies the product.

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Subject to technical amendments

Note that this document may not always be updated at the same time as technological developments. Information and specifications may change. Please check for the latest version at www.weidmuller.de.

Disposal

Please observe national regulations! If disposing of individual parts, please do so in accordance with their nature and existing country-specific regulations, for example as:

- Electrical scrap
- Plastics
- Metals

Or, task a certified disposal business with the scrapping.

Relevant laws, applied standards and directives

The laws, standards and directives for the device applied by Weidmüller Interface GmbH & Co. KG can be found in the declaration of conformity.

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Safety

Safety information

The "Quick guide" does not represent a full listing of all necessary safety measures required for safe operation of the device. Certain operating conditions may require further measures. The "Quick guide" contains information that you must observe for your own personal safety and to avoid damage to property.

Symbols used:

- This symbol is used as an addition to the safety instructions and warns of an electrical hazard.
- This symbol is used as an addition to the safety instructions and warns of a potential hazard.
- This symbol with the word NOTE! describes:

- Procedures that do not entail any danger of injury.
- Important information, procedures or handling steps.

Safety instructions are highlighted with a warning triangle and shown as follows, depending on the degree of hazard:

Indicates an immediately threatening hazard that leads to serious or even fatal injuries.

Indicates a potentially hazardous situation that could lead to minor injuries or damage to property.

Measures for safety

When operating electrical devices certain parts of these devices inevitably carry dangerous voltages. This could result in serious bodily injury or damage to property if not handled properly:

- Before establishing electrical connections to the device, earth it at the ground wire connection if there is one.
- Hazardous voltages may arise in all circuit parts that are connected to the power supply. Even after disconnecting the power supply, there may still be hazardous supply voltages present in the device (capacitor storage).

Do not operate equipment with current transformer circuits when open.

Do not exceed the threshold values stipulated in the operating manual - even during testing or commissioning.

Observe the safety and warning information in the documents that belong to the device!

Qualified personnel

In order to avoid injuries to personnel and property damage, only qualified personnel with electrical training are permitted to work on the devices with knowledge:

- of the national regulations for accident prevention
- of safety standards
- of installation, commissioning and operation of the device.

Proper use

The device is

- intended for installation in switch cabinets and small installation distributors (please observe step 3 "Assembly").
- not intended for installation in vehicles!

The use of the device in mobile equipment is considered to be non-standard environmental conditions and is therefore only permitted after separate agreement.

- not intended for installation in environments with hazardous oils, acids, gases, vapours, dusts, radion, etc.

The prerequisites of faultless, safe operation of this device are proper transport and proper storage, set-up, installation, operation and maintenance.

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Brief description of device

The device

- is a data logger, as the basis for your energy management.
- is designed for fixed installation (mounting rails) in low voltage switchgear.
- records and saves meter values and process data.

The captured data serves to enable

- Evaluation of energy consumption and operating hours.
- Monitoring switching statuses and faults in buildings and operations.

NOTE!

More detailed information on the device functions, data and installation can be found in the operating manual.

Assembly

The device is intended for weatherproof, fixed installation in low-voltage switchgear (protection class I per IEC 60536).

- It is assembled on a 35 mm mounting rail in accordance with DIN 60715.
- It can be installed in any mounting position.
- Forced ventilation is not required.



Labels on the device:

- RS485 interface
- DIP switch S1, device termination
- Rotary switch X1
- 2 LEDs - device status
- Ethernet interface
- Battery compartment
- Connection
- Supply voltage
- Service button S2
- Thermistor input

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Connections and control elements of the Energy Logger D550

Digital inputs group 2

Digital inputs group 1

Digital inputs group 3

Digital outputs

Labels on the device:

- RS485 interface
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- Rotary switch X1
- 2 LEDs - device status
- Ethernet interface
- Battery compartment
- Connection
- Supply voltage
- Service button S2
- Thermistor input

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Connecting the supply voltage

The supply voltage for the device is implemented via a 2-pole plug-in terminal. The supply voltage level and frequency for your device is specified on the rating plate.

Fig. Connection of the supply voltage via an external mains supply.

Fig. Connection of the supply voltage via an internal mains supply.

CAUTION!

Damage to property due to disregard of the connection conditions or impermissible overvoltage

Your device can be damaged or destroyed by a failure to comply with the connection conditions or by exceeding the permissible voltage range.

Before connecting the device to the supply voltage, please check:

- Voltage and frequency correspond to the details on the ratings plate! Threshold value stipulated in the operating manual have been complied with!
- In building installations, the supply voltage must be protected with a UL approved circuit breaker / a fuse (A, char. B).
- The isolation device
- must be installed near the device and in a location that is easily accessible for the user.
- must be labelled to identify the respective device.
- Provide a fuse for the neutral conductor if the neutral conductor terminal of the source is not grounded.

WARNING!

Danger of injury due to electrical voltage!

Serious bodily injury or death can result from:

- Contact with bare or stripped live wires.
- Device inputs that are dangerous to touch.

Render your device free of voltage before starting work! Check the system is free of electrical energy!

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DC connection variants

In order to parameterise all functions of the device, you require a PC with the network analysis software "ecoExplorer go" installed on it (availability see front page).

Using the Modbus protocol, you can modify and call up the data using the Modbus address list. The Modbus address list can be found under www.weidmuller.de.

In order to parameterise the device with the software, connect your PC with the device via the serial interface RS485, or via Ethernet.

The most common PC connection variants between device and PC:

- Direct connection of PC and Energy Logger D550 via Ethernet.
- Connection of the Energy Logger D550 via Ethernet and a switch.
- Connection of the Energy Logger D550 via an Energy Analyser D550 as gateway.
- Connection of the Energy Logger D550 via an interface converter.

5.

PC Ethernet Energy Logger D550 (gateway) RS485 Energy Meter D550 (Modbus Slave)

Connection of the Energy Logger D550 with gateway function to the PC via Ethernet.

6.

PC Ethernet Energy Logger D550 (gateway) RS485 Energy Meter D550 (Modbus Slave)

Connection of the Energy Logger D550 as a Modbus-Slave device.

In this connection variant,

- Energy Logger D550 can forward on requests (e.g. from the software) to a Modbus-Slave device.
- Energy Logger D550 cannot independently request Modbus-Slave devices itself!

RS485 mode: Energy Logger D550 as gateway, address 3 = 1 (You can configure the address with the "ecoExplorer go" software).

RS485 mode: Energy Logger D550 as Slave, address 3 = 0 (You can configure the address with the "ecoExplorer go" software).

CAUTION!

Property damage due to incorrect network settings

Incorrect network settings can cause faults in the IT network! Find out the network settings for your device from your network administrator.

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Device address (RS485)

If multiple devices are connected with each other via the RS485 interface (e.g. in a bus structure, see section 9), the master device distinguishes between the integrated devices on the basis of the device address. Each device on a network is therefore issued a different device address. The device address of the Energy Logger D550 is configured via 2 rotary switches

X10 X1

The setting range lies between 1 and 99. The device address 00 is reserved! Do not assign for Modbus communication!

The device address 99 is attained by setting X10 = 9 and X1 = 9 (highest setting value).

Example Device address 13

Factory setting Device address 1

DIP switch S1, LED device status

Depending on the placement of the Energy Logger D550 in a bus structure, it is possible to activate the integrated bus termination resistor via the DIP switch S1 (see step 9).

LED device status

2 LED lights beneath the RS485 interface indicate the status of the device:

- Both LEDs light up. The device is performing the start process.
- After 15 seconds, the start procedure is complete. The red LED goes out, the green LED lights up and indicates "Device in operation".
- Device error.
- If both LEDs are still illuminated after the start procedure is complete, the initialisation process was interrupted. Perform a device update (firmware) via the software.

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Ethernet interface

The Ethernet network settings are to be specified in the network administrator and set accordingly on the Energy Logger D550 using the "ecoExplorer go" software.

Ethernet connection with the PC/switch

NOTE!

The Energy Logger D550 is factory-set to the fixed IP address 10.10.10.200 (subnet mask 255.0.0.0, DHCP = deactivated).

The dynamic IP address is configured via a direct Ethernet connection with the software (see step 14, 15 and 16).

Fixed IP address

In networks without a DHCP server, the network address of the device must be set via Modbus or the software.

BooP

- Allows for the automatic integration of the device in an existing network.
- Does not have the scope of functions of DHCP.

DHCP mode

DHCP integrates the Energy Logger D550 in an existing network with DHCP server automatically. When started, the device pulls the IP address, the network mask and the gateway from the DHCP server.

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RS485 interface

The RS485 interface on the device

- is designed as a 2-pole plug contact.
- communicates via Modbus RTU protocol.

The user-friendly configuration of the device is possible with the "ecoExplorer go" software.

RS485 bus structure

- In an RS485 bus structure (line), you connect all devices in accordance with the Master-Slave principle.
- One segment of an RS485 bus structure can include up to 32 subscriber devices.
- The cable is terminated with termination resistors (120 Ω, 0.25 W) at the beginning and end of a bus structure. The device contains a termination resistor, which can be activated via DIP switch S1.
- With more than 32 subscribers, repeaters (amplifiers) are used to connect bus segments.
- Voltage must be present at devices with an active termination resistor.
- Recommendation: Install the Master at the end of a bus segment.
- If the Master device is replaced with a termination resistor that is active, the bus structure is out of operation.

Fig. Placement in the middle of a bus segment, termination via DIP switch S1 deactivated (OFF).

Fig. Placement at the end of a bus structure, termination via DIP switch S1 activated (ON, 120 Ω).

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Digital inputs and outputs

NOTE!

The user-friendly configuration of the digital inputs and outputs of the Energy Logger D550 takes place in the software.

Digital inputs

The device has 15 digital inputs. The digital inputs are divided into 3 groups, each with 5 inputs:

- 5 inputs share one joint earth respectively.
- LEDs indicate the status of the inputs. If the LED lights up (green) then a signal is present at this input.
- An input signal is present (signal "1") if a voltage of at least 18 V is flowing at a digital input (typically 4 mA at 24 V).
- If the input voltage is < 3 V DC, no input signal is present (signal "0").

Modbus address 004 is used to configure the number of stop bits where 0=1 stop bit (factory setting) and 1=2 stop bits. Data bits (8) and parity (none) are preset.

Baud rate

Configure a common Baud rate for devices in an RS485 bus structure.

The Baud rate for the Energy Logger D550 is configured via software or address 002 of the Modbus address list.

Address 002 Setting	Baud rate
0	9.6 kbps
1	19.2 kbps
2	38.4 kbps
3	57.6 kbps
4	115.2 kbps (factory setting)

Modbus address 004 is used to configure the number of stop bits where 0=1 stop bit (factory setting) and 1=2 stop bits. Data bits (8) and parity (none) are preset.

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S0 pulse input/S0 pulse transducer

Each digital input of the device is designed for the connection of an S0 pulse transducer.

This requires an external auxiliary voltage with an output voltage in the range of 20 - 27 V DC and a resistor of 1.3 kOhm/1 W.

The S0 plug module (optional):

- enables simple and fast connection of S0 pulse transducers.
- is for a group of 5 inputs with integrated resistors.

Fig. S0 plug-in module for connecting S0 pulse transducers

Thermistor input

The thermistor input on the device is dimensioned for a temperature sensor with a resistance range of 400 Ω to 4 kΩ. Do not exceed the total resistance load (sensor + cable) of 4 kΩ!

The device determines the temperature measurement value once per second. Configure the sensor type and temperature offset with the software or via Modbus.

Example: 3-line connection PT100

Example: 2-line connection PT1000 (requires additional bridge)

Example: 2-line connection KTY83 (requires additional bridge)

When connecting the KTY83/84 sensor, correct polarity must be ensured! Connect the negative connection (labelled with a black ring) to terminal 20!

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Digital outputs

The device features 3 digital outputs that use a joint earth:

- The LEDs indicate the status of the outputs. If the LED lights up (red) then the output is set to active - irrespective of whether there is an onwards connection to this output.
- Digital output 1 can be configured to monitor the temperature. It is connected with a comparator via the thermistor input.

The digital outputs:

- can be switched via Modbus and the weekly switch clock.
- can display the results of comparators.
- require external auxiliary voltage.
- can be used as pulse outputs.
- switch AC and DC loads.
- are not short circuit-proof.

Example connection "Digital inputs of groups 1 and 2"

For fault-free operation of the device:

- Lay screened cable from a cable length from 30 m.
- Correct polarity of the supply voltage for the digital inputs (20 - 30 V DC) must be ensured.

Digital outputs

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- The LEDs indicate the status of the outputs. If the LED lights up (red) then the output is set to active - irrespective of whether there is an onwards connection to this output.
- Digital output 1 can be configured to monitor the temperature. It is connected with a comparator via the thermistor input.

The digital outputs:

- can be switched via Modbus and the weekly switch clock.
- can display the results of comparators.
- require external auxiliary voltage.
- can be used as pulse outputs.
- switch AC and DC loads.
- are not short circuit-proof.

Example of the connection of external switch contacts S1 to S5 to digital inputs 1 to 5.

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The most important technical data

Supply voltage	300 V CAT II
Installation overvoltage category	300 V - 30 V DC (SELV or PELV supply)
Protection of the supply voltage (line)	Fuse, 6 A, Char. B (per UL/IEC)
Nominal range	AC 20 V - 250 V (45 - 65 Hz) or DC 20 V - 250 V
Power consumption	max. 4 VA / 2 W

Digital inputs	15 digital inputs, semiconductor relays, not short-circuit proof.
Supply voltage	20 V - 30 V DC (SELV or PELV supply)
Input signal present (signal "1")	> 18 V DC (typical 4 mA at 24 V)
Input signal not present (signal "0")	< 3 V DC
Pulse read (ON), maximum count frequency	25 Hz
Pulse input 1	per DIN EN 60503-31:1998 (IEC 60503-31:1998 Class B)

1) To operate the device in accordance with DIN EN 60503-31 (SELV), a resistor 1.3 kΩ/1 W must be connected parallel to the input.

Digital outputs

Digital outputs	3 digital outputs, semiconductor relays, not short-circuit proof.
Supply voltage	20 V - 30 V DC (SELV or PELV supply)
Switching voltage	max. 60 V DC
Switching current	max. 50 mA/100 DC
Pulse output (sensor status)	Max. 20 Hz
Pulse output	per DIN EN 60503-31:1998 (IEC 60503-31:1998 Class B)

NOTE!

Further technical data can be found in the operating manual for the device.

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Direct PC connection of the Energy Logger D550 via Ethernet (Windows 7)

A common way in which to integrate the Energy Logger D550 in your PC network is direct connection via the Ethernet interface.

NOTE!

Because the Energy Logger D550 is supplied with a fixed IP address, and in order to integrate it in your company network your PC, you require administrator rights for the following steps:

Fixed IP address of your Energy Logger D550 (standard factory settings)

IP address	10.10.10.200
Subnet mask	255.0.0.0
DHCP	deactivated

Set the IP address of your PC for the connection with the Energy Logger D550:

1. Press the Windows key.
2. The "Start menu" appears.
3. Click on "Control panel" in the right menu field.
4. The window "Adjust your computer's settings" appears.
5. Click on "Network and sharing center".
6. The "Network and sharing center" window appears.

MS-Windows 7 - Network and sharing center

Fig. MS-Windows 7 - Network and sharing center

Fig. MS-Windows 7 - window "Properties of LAN connection"

Fig. MS-Windows 7 - window "Status of LAN connection"

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"ecoExplorer go" software settings for direct PC connection via Ethernet

Install the "ecoExplorer go" software on your computer and proceed as follows:

Create a new project:

1. Select "File" > "New project". For existing projects, select your project under "File" > "Open project".
2. The "New project" window appears.
3. Click the "Next" button under step 1 "Select project".
4. Under step 2 "Project path", select the "Project name".
5. Click on the "Done" button.
6. Your project appears on the left in the "Projects" window in the working area.

Enter the new device into the project:

1. Select "File" > "New file".
2. The "New file" window appears.
3. Under step 1 "Select file type" in the category "Data logger" select the "File type" "Energy Logger D550".
4. Click on the "Next" button.

The Energy Logger D550 can now be configured using the software installed on the PC!

IP configuration of the Energy Logger D550 ("ecoExplorer go") via direct PC connection

NOTE!

In order to integrate the Energy Logger D550 in a network with DHCP server and for automatic assignment of the IP address, subnet mask and gateway, change the IP configuration from "Fixed IP Address" (standard setting) to "DHCP Mode". To do so, first set a "PC direct connection with Energy Logger D550 via Ethernet" and configure the "DHCP Mode"!

Once you have connected the Energy Logger D550 with your PC via Ethernet (see step 15) and integrated it in the "ecoExplorer go" software:

1. Open the context menu for your device with the right mouse button:
2. In the window "Projects" > "Your project" > "Devices" > "By device type" > "Energy Logger D550" > "Device x".
3. Click on the "Configuration" menu item in the context menu.

3. The "Configuration [device x]" window appears in the right half of the working area.

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IP configuration of the Energy Logger D550 ("ecoExplorer go") via direct PC connection

NOTE!

Please make sure that the device addresses of the Master (Energy Analyser D550) and Slave (Energy Logger D550) differ from each other. The device address of the Master (device ID of the Energy Analyser D550) is configured in the window "Configuration" > Menu "Serial interface" in the software.

14. Click on the "OK" button.

15. Exit the "Add new device to the project" step by clicking on the "Done" button.

16. You can now configure your device with the software.

NOTE!

In order to avoid data loss, save your device configuration changes with the "Transfer" or "Transfer to" buttons!

NOTE!

This device configuration represents the basic settings. Further details for device settings required for different functions can be found in the operating manual (available online) for the software.

Add Energy Analyser D550 to the project

1. Select "File" > "New file" in the menu bar.
2. The "New file" window appears.

Fig. MS-Windows 7 - window "Properties of LAN connection"

Fig. MS-Windows 7 - window "Status of LAN connection"

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PC connection of the Energy Logger D550 via Energy Analyser D550 as gateway

Configure your Energy Analyser D550 via Ethernet cable on your PC as a "DHCP Client" (device IP address is assigned automatically). See operating manual and quick guide to the device.

2. Connect your Energy Logger D550 via the RS485 interface with the Energy Analyser D550.

NOTE!

In order to integrate the Energy Logger D550 in a network with DHCP server and automatic assignment of the IP address, subnet mask and gateway, change the IP configuration from "Fixed IP Address" (standard setting) to "DHCP Mode" in the "ecoExplorer go" software.

Ensure that the Baud rates of the devices match up in the RS485 bus structure!

Add Energy Analyser D550 to the project

1. Select "File" > "New file" in the menu bar.
2. The "New file" window appears.

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Add Energy Logger D550 to the project

1. Click on the "Properties" button.
10. After entering the administrator data, the "Properties of LAN connection" window appears.

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Add Energy Logger D550 to the project

1. Click on the "Properties" button.
10. After entering the administrator data, the "Properties of LAN connection" window appears.

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Add Energy Logger D550 to the project