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Energy Meter 350

Quick Guide

Supplement to the operating manual

- Installation
- Commissioning
- Settings

Deutsche Version:
siehe Vorderseite

http://wmqr.eu/242542

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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.

Disclaimer
The observance of the information provided 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.weidmueller.de.

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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:

Connecting the supply voltage

The device draws its supply voltage from the measured voltages.

The device (measurement and supply voltage 196 - 275 V / L-N), requires at least one measured voltage in the rated voltage range.

CAUTION!
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 (2-10 A)!
- 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.
- Do not tap the supply voltage from the voltage transformer.
- Provide a fuse for the neutral conductor if the neutral conductor terminal of the source is not grounded.

WARNING!
Serious bodily injury or death can result from:

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

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

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

Disregard of the connection conditions for the voltage measurement inputs can result in injuries or to the device being damaged. For this reason, note that:

- The voltage measurement inputs
 - are not connected to DC voltage,
 - are equipped with a suitable, labelled fuse located in the vicinity and isolation device (alternative: circuit breaker) located nearby,
- Voltages that exceed the allowed rated network voltages must be connected via a voltage transformer.
- Measured voltages and measured currents must derive from the same network.

NOTE!
A circuit breaker (2-10 A) can be used as an alternative to a fuse and isolating device.

Mains systems

Mains systems and max. rated voltages (DIN EN 61010-1/A1)

Standard version:
U_{L-N} / U_{L-L}
275 VLN / 476 VLL

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U_{L-N} / U_{L-L}
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The device can be used in

- TN, TT and IT networks
- in residential and industrial applications.

Current measurement

The device

- is only approved for measuring current with a current transformer.
- is intended for the connection of current transformers with secondary currents of $\sqrt{1}$ A and $\sqrt{5}$ A.
- has the current transformer ratio set to 5/5 A as standard.
- does not measure DC currents.

WARNING!
Danger of injury due to high currents and high electrical voltages!
Current transformers operating with an open secondary circuit (high voltage peaks) can result in serious or even fatal injuries. Avoid open operation of the current transformers - short-circuit unloaded transformers!

NOTE!
Further information on current data and current transformer data can be found in the operating manual.

Connection variants

Connection variant 1
Measurement in three-phase distribution system with 3 current transformers.

Connection variant 2
Measurement in three-phase distribution system with 2 current transformers.

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Outputs K1 and K2

The device is equipped with 2 transistor outputs. Each output optionally serves as a **pulse output** or **switch output**. Standard setting:

- Output K1 = pulse output "active energy" (total),
- Output K2 = pulse output "reactive energy" (total).

Outputs that you

- assign energy to operate as a **pulse output**,
- assign a measured value to operate as a **switch output**.

Pulse output function
If the outputs serve as pulse outputs then the

- active energy can only be assigned to output K1 and the
- reactive energy can only be assigned to output K2

Switch output function
When used as a switch output

- it is only possible to assign K1 and K2 one measured value respectively. Activate the desired phases for the measured value!
- K1 or K2 switch if the set measured value is under or exceeded by the active phases. In this way it is possible to monitor the current of the phases L1 and L2 through threshold values for example.

State of output K1 - active energy

Fig. State of output K1 - active energy

State of outputs K1 and K2:
● Output switches, current flows.
○ Output does not switch, no current flows.

State of output K2 - reactive energy

Fig. State of output K2 - reactive energy

State of outputs K1 and K2:
● Output switches, current flows.
○ Output does not switch, no current flows.

Program switch output

Example of programming the output K1 as a switch output for measured value "Current" (A):

- Switch to programming mode.
- The symbols for programming mode **PRG**, and for the current transformer **CT** appear.
- Press button 1 - the first digit of the input field for the primary current flashes.
- Use button 2 to select the value of the 1st digit.
- Use button 1 to change to the 2nd digit.
- Use button 2 to select the value of the 2nd digit.
- Use button 1 to change to the 3rd digit.
- Use button 2 to select the value of the 3rd digit.
- Confirm with button 1.
- The complete number flashes.
- Use button 2 to select the decimal place and thus the unit of the primary current.
- Confirm with button 1.
- The input range of the secondary current flashes.
- Set the secondary current (value 1 A or 5 A) with button 2 (standard setting $\sqrt{5}$ A).
- Confirm with button 1.
- Exit programming mode by simultaneously pressing buttons 1 and 2 (1 sec.). Use button 2 to change to the input field for the voltage transformer.

NOTE!
Detailed information on the switch outputs, threshold values and programming of the outputs can be found in the operating manual.

Program pulse output

Example of programming the output K2 as a pulse output for reactive energy (Varh):

- Switch to programming mode.
- The symbols for programming mode **PRG**, and for the current transformer **CT** appear.
- Press button 2 to change to programming mode for the voltage transformer.
- The symbols for programming mode **PRG**, and for the voltage transformer **VT** appear.
- Press button 1 - the first digit of the input field for the primary voltage flashes.
- Use button 2 to select the value of the 1st digit.
- Use button 1 to change to the 2nd digit.
- Use button 2 to select the value of the 2nd digit.
- Use button 1 to change to the 3rd digit.
- Use button 2 to select the value of the 3rd digit.
- Confirm with button 1.
- The complete number flashes.
- Use button 2 to select the decimal place.
- Confirm with button 1.
- The unit flashes.
- Select the unit **Varh** (reactive energy) - The unit **Varh** and the **sigma** sign flash. The **reactive energy (Varh)** is set here as **pulse output K2**.
- Confirm your selection using button 1 - No digit flashes.
- Use button 2 to change to the next programming menu.

Program output K1 in the same way as the pulse output for the **active energy (Wh)**.

NOTE!
Detailed information on the pulse outputs, pulse values and programming of the outputs can be found in the operating manual.

Control and button functions

The device is operated with buttons 1 and 2, whereby the following distinctions are made:

- Short press (button 1 or 2):
Next step (+1).
- Longer press (button 1 or 2):
Previous step (-1).

The device differentiates between display and programming mode.

Display mode

- Buttons 1 and 2 can be used to scroll between the measured value indications.
- The measured value indication shows up to 3 measured values.

Programming mode

- Hold buttons 1 and 2 depressed simultaneously for 1 second to change between **display mode** and **programming mode**. The text **PRG** appears in the display.
- Configure the necessary settings for the operation of the device in programming mode.
- The programming mode can be protected with a user password.
- Button 2 switches between the programming menus:
 - Current transformer
 - Voltage transformer
 - Outputs K1 and K2

Current transformer

Fig. "Current transformer" input field

NOTE!
Changes are only applied after exiting the programming mode.

NOTE!
More detailed information on the operation, display of measured values, menus and button functions can be found in the operating manual for your device.

Programming current transformers

- Switch to programming mode.
- The symbols for programming mode **PRG**, and for the current transformer **CT** appear.
- Press button 1 - the first digit of the input field for the primary current flashes.
- Use button 2 to select the value of the 1st digit.
- Use button 1 to change to the 2nd digit.
- Use button 2 to select the value of the 2nd digit.
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- Use button 2 to select the value of the 3rd digit.
- Confirm with button 1.
- The complete number flashes.
- Use button 2 to select the decimal place and thus the unit of the primary current.
- Confirm with button 1.
- The input range of the secondary current flashes.
- Set the secondary current (value 1 A or 5 A) with button 2 (standard setting $\sqrt{5}$ A).
- Confirm with button 1.
- Exit programming mode by simultaneously pressing buttons 1 and 2 (1 sec.). Use button 2 to change to the input field for the voltage transformer.

Programming the voltage transformer

- Switch to programming mode.
- The symbols for programming mode **PRG**, and for the current transformer **CT** appear.
- Press button 2 to change to programming mode for the voltage transformer.
- The symbols for programming mode **PRG**, and for the voltage transformer **VT** appear.
- Press button 1 - the first digit of the input field for the primary voltage flashes.
- Use button 2 to select the value of the 1st digit.
- Use button 1 to change to the 2nd digit.
- Use button 2 to select the value of the 2nd digit.
- Use button 1 to change to the 3rd digit.
- Use button 2 to select the value of the 3rd digit.
- Confirm with button 1.
- The complete number flashes.
- Use button 2 to select the decimal place and thus the unit of the primary voltage.
- Confirm with button 1.
- The complete number flashes.
- Use button 2 to select the decimal place and thus the unit of the primary voltage.
- Confirm with button 1.
- Exit programming mode by simultaneously pressing buttons 1 and 2 (1 sec.). Use button 2 to change to the programming mode for outputs K1 and K2.

Switch output

In order to program the outputs K1 and K2 as switch outputs, assign the corresponding electrical variables, measured values. The following parameters are available for selection when programming the switch output.

- 1st digit
- 2nd digit
- 3rd digit
- Decimal place
- Unit
- Sign
- Upper/lower threshold value
- Mean value
- Phase assignment L1/L2/L3 (PRG flashes)
- Output state

The device compares the measured values with the set threshold values. If the measured value of the device exceeds the set threshold values, depending on programming, the associated output switches. In order to avoid frequent switching, a min. switch-on time of 1 second is programmed.

Program switch output

Example of programming the output K1 as a switch output for measured value "Current" (A):

- Switch to programming mode.
- The symbols for programming mode **PRG**, and for the current transformer **CT** appear.
- Press button 1 - the first digit of the input field for the primary current flashes.
- Use button 2 to select the value of the 1st digit.
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- Use button 2 to select the value of the 2nd digit.
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- Use button 2 to select the value of the 3rd digit.
- Confirm with button 1.
- The complete number flashes.
- Use button 2 to select the decimal place.
- Confirm with button 1.
- The unit flashes.
- Select the unit **A** (current) - Unit **A** flashes.
- The measured value **current (A)** is set here as **switch output K1**.
- Confirm your selection using button 1 - No digit flashes.
- Use button 2 to change to the next programming menu.

Program output K2 in the same way as switch output for the respective electrical variable.

NOTE!
Detailed information on the switch outputs, threshold values and programming of the outputs can be found in the operating manual.

Pulse output

If the output

- K1 has been assigned to active energy
- or K2 to reactive energy

(see step 17) then the respective output is configured as a pulse output!

- Each pulse output can be assigned a pulse value (Wh/pulse, Varh/pulse).
- The pulses collected within 1 second are issued at the programmed pulse length of e.g. 60 ms and a maximum frequency of 10 Hz. The pulse intervals are not proportionate to the power.
- If the measured energy exceeds the set pulse value and the maximum frequency for the pulse output is exceeded then the remaining pulses are intermediately stored and issued subsequently. Pulses stored on an intermediate basis are lost with a mains power failure!

NOTE!
Since the active energy meter operates with a backstop, pulses will only be generated when drawing electricity.

NOTE!
Since the reactive energy meter operates with a backstop, pulses will only be generated with an inductive load.

Program pulse output

Example of programming the output K2 as a pulse output for reactive energy (Varh):

- Switch to programming mode.
- The symbols for programming mode **PRG**, and for the current transformer **CT** appear.
- Press button 2 to change to programming mode for the voltage transformer.
- The symbols for programming mode **PRG**, and for the voltage transformer **VT** appear.
- Press button 1 - the first digit of the input field for the primary voltage flashes.
- Use button 2 to select the value of the 1st digit.
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- Select the unit **Varh** (reactive energy) - The unit **Varh** and the **sigma** sign flash. The **reactive energy (Varh)** is set here as **pulse output K2**.
- Confirm your selection using button 1 - No digit flashes.
- Use button 2 to change to the next programming menu.

Program output K1 in the same way as the pulse output for the **active energy (Wh)**.

NOTE!
Detailed information on the pulse outputs, pulse values and programming of the outputs can be found in the operating manual.

Assembly

Install the Energy Meter 350 in the weatherproof front panel of switch cabinets.

Cut-out size for the device:
92^{+0.8} x 92^{+0.8} mm

Ensure!
Adequate ventilation

- The device is installed vertically!
- Observe clearance to adjacent components!

Fig. Installation situation, rear view

CAUTION!
Damage to property due to disregard of the installation instructions
Disregard of the installation instructions can damage or destroy your device. Ensure that you have enough air circulation in your installation environment, and in the event of high environmental temperatures provide cooling if necessary.

Connections for the current measurement

NOTE!
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Adequate ventilation

- The device is installed vertically!
- Observe clearance to adjacent components!

Fig. Installation situation, rear view

CAUTION!
Damage to property due to disregard of the installation instructions
Disregard of the installation instructions can damage or destroy your device. Ensure that you have enough air circulation in your installation environment, and in the event of high environmental temperatures provide cooling if necessary.

Connections for the current measurement

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

Assembly

Install the Energy Meter 350 in the weatherproof front panel of switch cabinets.

Cut-out size for the device:
92^{+0.8} x 92^{+0.8} mm

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Assembly

Install the Energy Meter 350 in the weatherproof front panel of switch cabinets.

Cut-out size for the device:
92^{+0.8} x 9