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› SCHWAIGER Energy Cost Meter and Power Monitor User Manual

SCHWAIGER STEM1044

SCHWAIGER Energy Cost Meter and Power Monitor

Model: STEM1044

INTRODUCTION

The SCHWAIGER Energy Cost Meter and Power Monitor (Model STEM1044) is a versatile device designed to accurately measure and display the power consumption of connected appliances or the energy feed-in from small power generation systems like balcony power plants. With its illuminated display and IP44 weather-protected housing, it is suitable for both indoor and outdoor use. This manual provides detailed instructions on how to set up, operate, and maintain your device to effectively monitor your energy usage and costs.

PRODUCT FEATURES

- **Outdoor Suitability:** IP44 weather-protected housing and illuminated display for clear readability in all conditions.
- **Consumption & Feed-in Measurement:** Accurately determines current power consumption of connected devices or energy feed-in into the grid.
- **Energy Cost Calculation:** Calculates real-time energy costs based on an adjustable kWh price, displaying consumption directly in Euros.
- **Wide Measuring Range:** Measures from 0.3 to 3,680 Watts and voltage in Volts for precise determination of usage or feed-in.
- **Comprehensive Display:** Shows Volt, kWh price, feed-in, and Watt readings, enabling effective monitoring and potential savings identification.

ENERGIEKOSTENMESSGERÄT



Image: The SCHWAIGER Energy Cost Meter with callouts indicating its main features: measures consumption & feed-in, IP44 outdoor protection, adjustable kWh price, and a wide measuring range of 0.3 - 3,680 Watts.

PACKAGE CONTENTS

Please check the package contents upon unboxing to ensure all items are present:

- 1x SCHWAIGER Energy Cost Meter (Model STEM1044)
- 1x User Manual

PRODUCT OVERVIEW

Familiarize yourself with the components of your energy cost meter:

- **Display:** Illuminated LCD screen showing various measurement values.
- **MODE Button:** Cycles through different display modes (Volt, Watt, Total kWh, Total Cost, Cost per kWh).

- **RESET/IMP Button:** Resets accumulated data or confirms settings.
- **UP Button:** Adjusts values when setting the kWh price.
- **Socket:** For connecting the appliance or power source to be measured.
- **Plug:** For connecting the meter to a wall outlet.
- **Protective Cover:** Blue cover for the socket, providing IP44 protection.



Image: A diagram of the SCHWAIGER Energy Cost Meter with labels pointing to its key components: the household socket, weatherproof housing, illuminated LCD display, and the five control buttons for operation.

SETUP

1. **Initial Connection:** Plug the SCHWAIGER Energy Cost Meter directly into a standard wall socket. The display will illuminate.
2. **Setting kWh Price (Optional but Recommended):**
 - Press the **MODE** button repeatedly until "COST kWh" is displayed.
 - Press and hold the **RESET/IMP** button for approximately 3 seconds until the digits start flashing.
 - Use the **UP** button to adjust the flashing digit. Press **MODE** to move to the next digit.
 - Once the desired kWh price is set, press and hold the **RESET/IMP** button again to save the setting.
3. **Connect Appliance/Source:** Plug the appliance you wish to monitor (e.g., washing machine, refrigerator) or the power generation source (e.g., balcony power plant inverter) into the socket of the energy cost meter.

Ideal für die Messung
der Einspeisung von
kleinen Solaranlagen



Image: The energy cost meter connected to an inverter, demonstrating its use for measuring feed-in from small solar installations.

OPERATING INSTRUCTIONS

The device offers several display modes to monitor different aspects of energy usage or generation.

Display Modes

Press the **MODE** button to cycle through the following display options:

- **V (Voltage):** Displays the current voltage in Volts (V). Range: 0.0 - 999.9 V.
- **W (Wattage):** Displays the current power consumption or feed-in in Watts (W). Range: 0.0 - 9999 W.
- **Total kWh (Kilowatt-hours):** Shows the accumulated energy consumption or feed-in in kilowatt-hours (kWh) over the usage period. Range: 0.0 - 9999 kWh.
- **Total Cost:** Displays the total calculated energy cost in Euros (€) based on the set kWh price and accumulated kWh. Range: 0.0 - 9999 €.

- **COST kWh:** Shows the currently set price per kilowatt-hour.

Anschlüsse	1x Haushaltssteckdose Typ F 1x Haushaltsstecker Typ F
Spannungsversorgung	230 V, 50 Hz
Ausgangsleistung	3680 W (max.)
Überspannungskategorie	CAT II
Messbereiche Spannung	150 - 276 V AC
Leistung	0,3 - 3680 W
Displaygröße	4,5 cm / 1,7 Zoll
Betriebstemperatur	+5° bis +40°C
Schutzart	IP44
Gewicht	134 g



Image: A visual representation of the five possible display modes on the SCHWAIGER Energy Cost Meter, including Voltage, Wattage, Total kWh, Total Cost, and Cost per kWh, each with their respective display ranges.



Image: The energy cost meter's display showing a voltage reading of 228.3 V, demonstrating one of its measurement modes.



Image: The energy cost meter's display showing a total accumulated energy reading of 43.50 kWh, useful for long-term monitoring.

Resetting Data

To reset the accumulated Total kWh and Total Cost data, press and hold the **RESET/IMP** button for approximately 5 seconds while in the "Total kWh" or "Total Cost" display mode. The values will reset to zero.



Image: The energy cost meter connected to a washing machine, illustrating its use for identifying energy-intensive appliances.

MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight.
- **Outdoor Use:** Ensure the protective cover for the socket is securely closed when used outdoors to maintain IP44 weather protection.



- ✓ Beleuchtetes Display
- ✓ Wettergeschütztes Gehäuse
- ✓ Messung in Watt, Volt oder kWh-Preis

Image: The energy cost meter plugged into an outdoor wall socket, demonstrating its weather-protected housing (IP44) even during light rain.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank.	No power supply to the meter.	Ensure the meter is securely plugged into a live wall socket. Check the wall socket with another device.
Readings are incorrect or fluctuating.	Loose connection; device malfunction.	Ensure both the meter and the connected appliance are securely plugged in. If the issue persists, contact customer support.
Cannot set kWh price.	Incorrect mode; buttons not pressed correctly.	Ensure the display shows "COST kWh". Press and hold RESET/IMP until digits flash. Follow the instructions in the "Setup" section carefully.

Problem	Possible Cause	Solution
Data does not reset.	Incorrect mode; buttons not pressed correctly.	Ensure you are in "Total kWh" or "Total Cost" mode. Press and hold RESET/IMP for approximately 5 seconds.

SPECIFICATIONS

Parameter	Value
Model Number	STEM1044
Dimensions (L x W x H)	12 x 3.5 x 6 cm
Weight	195 g
Measuring Range (Watt)	0.3 - 3680 W
Voltage Measurement Range	150 - 276 V AC
Protection Class	IP44 (Weather-protected)
Display Type	Illuminated LCD
Operating Temperature	+8°C to +40°C

5 ANZEIGE-MODI MÖGLICH:



- ✓ **V:** Stromspannung in Volt
Anzeige von 0,0 - 999,9 möglich
- ✓ **W:** Leistungsaufnahme/-Abgabe in Watt
Anzeige von 0,0 - 9999 möglich
- ✓ **Total kWh:** Energieverbrauch/-Einspeisung in Kilowattstunden während der Nutzungsdauer
Anzeige von 0,0 - 9999 möglich
- ✓ **Total Cost:** Kosten des Energieverbrauchs in €
Anzeige von 0,00 - 9999 möglich
- ✓ **Cost kWh:** Kosten pro Kilowattstunde
Anzeige von 0,00 - 9999 möglich

Image: A diagram illustrating the physical dimensions of the SCHWAIGER Energy Cost Meter: 12 cm length, 3.5 cm width, and 6 cm height.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official SCHWAIGER website. Keep your proof of purchase for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

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