

## OPERATING MANUAL

### Test kit

#### Test kit for window drives

**Part.-No: 533984**

**Application:**

Test kit to test the running behavior and to support the commissioning of 24 V DC or 230 V AC window drives.



Supply voltage:	230 V AC
Drive voltage:	24 V DC / 230 V AC
Drive current:	max 5.0 A
Fine fuse:	5.0 A
Power consumption:	1 W / 12 W (battery level is maintained / charged)
Ambient temperature:	- 15 °C ... + 40 °C
Protection rating:	IP20 / IP65 (case open / closed)
Electrical protection:	protection class 1, ES1 according to EN IEC 62368-1
Housing:	plastic (PP)
Dimensions (WxHxD):	400 x 300 x 168 mm
Weight:	approx. 5,3 kg
Controls:	3x switches 2x buttons
Display:	TFT display, colored
Scope of delivery:	1x Test kit 1x mains plug 4x safety banana plugs 1x operating manual (German, English)

### Target group

These instructions are intended for qualified personnel with knowledge and skills in electrical and mechanical drive installation.

### Intended use

The Test-kit is intended for the trial operation of window drives that fulfil the technical connection conditions to the Test-kit, as well as for the trial operation of power-operated windows that are equipped with such drives.

### Safety instructions



When using the Test kit, observe the connection conditions as well as the safety instructions for avoiding personal injury and property damage, which are given in the installation instructions for the window drives to be tested, and in particular the hazards that can arise from a power-operated window.

### Ambient conditions

Only use the Test kit in dry rooms and protect it permanently from dirt and moisture. Heavy shocks, falls and vibrations can damage the device and must be avoided. Observe the specified operating temperature range during use.

### Operation

Insert the mains plug of the Test kit only into suitable sockets. Only use the safety banana plugs supplied with the device to connect the drives.



Be sure to properly connect the drive cables to the safety banana plugs. Never connect 24 V DC drives to the 230 V AC jacks. Always connect PE grounding wires - otherwise there is a risk of danger to life due to short circuit or electric shock!

Test unassembled drives on a non-slip and secure surface or test fixture. Before test operation, take the appropriate safety precautions for the respective drives so that control of the movement of the drives is ensured at all times and the potential for injury is excluded.

Do not reach into the test element during test operation - risk of injury! For drives without an integrated switch-off device, switch off the supply voltage manually via the device in good time to avoid damaging it!

### Maintenance

The Test kit is maintenance-free. Do not open the electronics of the device. The replacement of used or defective batteries as well as other components (exception: mains plug socket fuse) may only be carried out by the manufacturer. Interventions by others will void the manufacturer's liability and the warranty. Have the device checked for operational safety in accordance with the relevant regulations of the professional associations.

Features and operation

### Overview

**Device ON / OFF**

In battery mode  
**ON:** Device on  
**OFF:** Device off

To switch on in mains operation, press any other button / switch

**Mains socket and fuse**

**Fuse**  
F = 5,0 A

**Mains connection for:**

- Test operation 230 V AC drives
- Charging the batteries (also active when the device is switched off)

**aumüller**

ON OFF

24 V █ %

Imot = \_\_\_\_\_ A  
 Imax = \_\_\_\_\_ A  
 Umot = \_\_\_\_\_ V  
 Ubat = \_\_\_\_\_ V Ichg = \_\_\_\_\_ A

**Spannung voltage**  
 A 24 V --- B 230 V ~

**Modus mode**  
 Test Programmierung programming 24 V ---

**Test**

**Taster push button**  
 Polwendung polarity reversal 1 0 2

**Schalter switch**  
 1 0 2

**Terminal 1:** - + 1 2

**Terminal 2:** L L' N PE 1 2

Nur spannungslos stecken!  
 plug voltage-free only! ⚡

### Display

24 V █ %

Imot = \_\_\_\_\_ A  
 Imax = \_\_\_\_\_ A  
 Umot = \_\_\_\_\_ V

Ubat = \_\_\_\_\_ V Ichg = \_\_\_\_\_ A

**Imot:** Actual drive current  
**Imax:** Maximum measured drive current  
**Umot:** Actual drive voltage  
**Ubat:** Battery voltage  
**Ichg:** Charging current in mains operation

Battery level

Voltage in OPEN direction

Voltage in the CLOSE direction

Waiting for action - press the desired button / switch for the function

24 V Change drive voltage - set drive voltage switch to 24 V

230 V mains voltage required - plug in the mains plug

Timeout - press any button / switch to cancel

Charging mode - press any button / switch to switch on the device

#### Drive voltage

**Spannung voltage**

A 24 V --- B 230 V ~

A: 24 V voltage  
 B: 230 V voltage

#### Operation mode

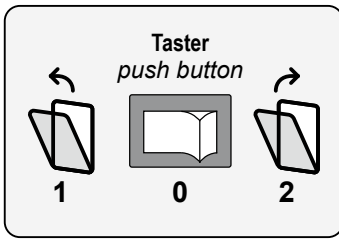
**Test:**  
 running direction via button / switch selectable

**Programming:**  
 running direction CLOSE

**Modus mode**

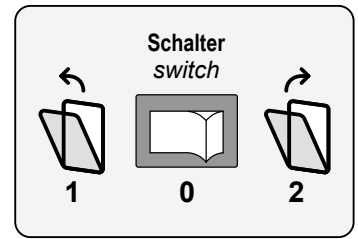
Test Programmierung programming 24 V ---

Running direction of the drives

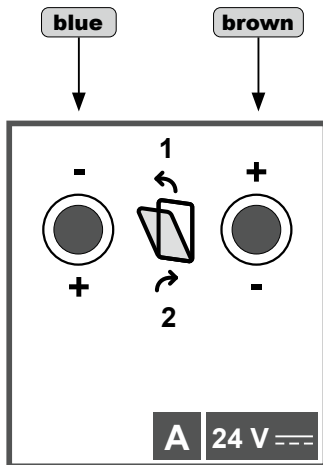


- 0:** STOP Drive de-energized
- 1:** OPEN Drive under voltage
- 2:** CLOSE Drive under voltage

**Note** For button function: Set switch to position **0**



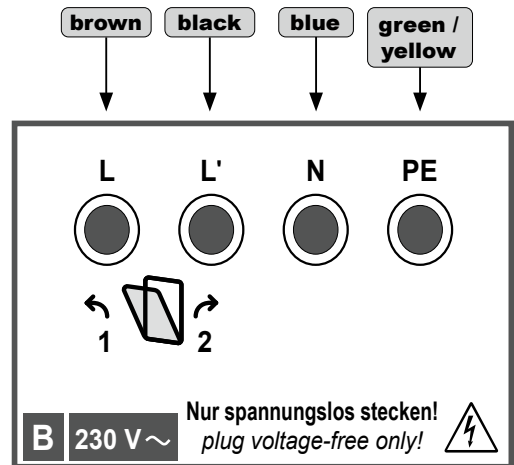
24 V DC sockets



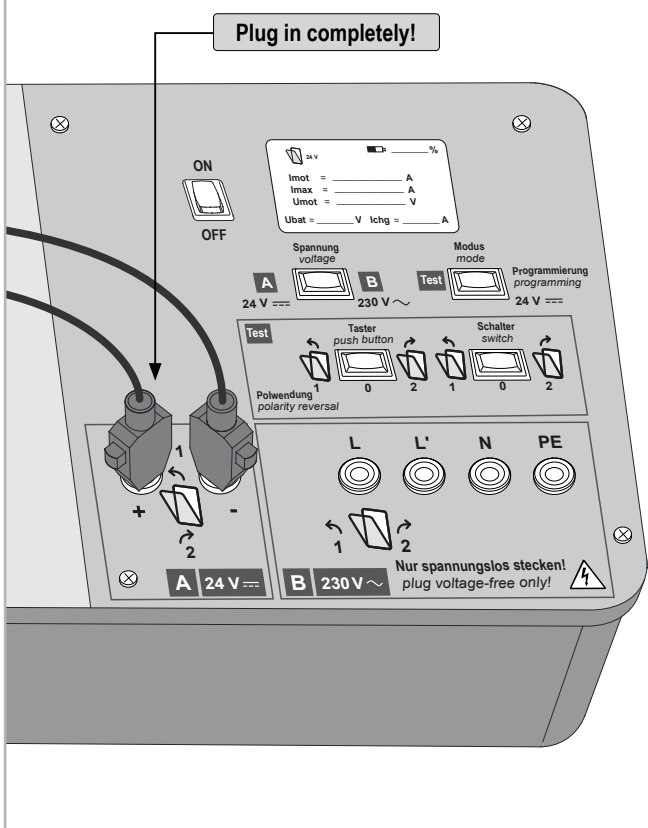
- 1 - Running direction OPEN**
- 2 - Running direction CLOSE**

Max. 5,0 A

230 V AC sockets



Safety banana plug



Warranty

Warranty claims assume the intended and professional operation and use of the Test kit in accordance with the manufacturer's specifications and the installation instructions for the connected window drives.

The installation instructions for the **AUMÜLLER** window drives can be found at: <https://www.aumueller-gmbh.de>

Keep these instructions for the entire service life of the product.

Further instructions

Care

To clean the device, only use cleaning agents that do not attack the housing and the operating panel or labeling.

Fully charge the integrated batteries before using it for the first time. The batteries are charged even when the Test-kit is switched off, and the display remains active. The Test kit switches itself off in battery mode after 30 minutes without use and has deep discharge protection. If the Test-kit is not used for a very long time, check the charge status of the batteries and recharge them, if necessary, in order to maintain the charging capacity in the best possible way.

Disposal



The symbol of the „crossed-out dustbin“ means that you are legally obliged to collect these appliances separately and recycle them in an environmentally friendly manner. Do not throw old electrical appliances into the household waste! Information on return options can be found at:

<https://www.aumueller-gmbh.de/umweltschutz>

## Help in case of malfunctions

Problem	Possible causes	Possible solutions
Drive does not start or does not continue to run	<ul style="list-style-type: none"> <li>• Drive wires or safety banana plugs without contact</li> <li>• - Socket assignment incorrect</li> <li>• - For 230 V drives: mains plug not connected or mains plug socket fuse defective</li> <li>• Battery charge too low (24 V DC drives) or batteries defective</li> <li>• Drive current over 5,0 A - display text: Imot &gt; max.!</li> </ul>	<ul style="list-style-type: none"> <li>• Plug in the cable cores or plugs completely</li> <li>• Reverse polarity of safety banana plugs</li> <li>• Connect the mains plug cable or replace the fuse</li> <li>• Charge the batteries or send the device to the manufacturer for battery replacement</li> <li>• Ensure suitable drive types and load conditions - reset display text by changing running direction</li> </ul>
Batteries are not charged or are discharged again directly	<ul style="list-style-type: none"> <li>• Mains socket fuse defective</li> <li>• Batteries used up or defective</li> </ul>	<ul style="list-style-type: none"> <li>• Replace fuse</li> <li>• Send device to manufacturer for battery replacement</li> </ul>

## Electric connection of drives

**Exemplary representation for AUMÜLLER S3 / S12 drives**

24 V DC drives	230 V AC drives																
<table border="1" style="width: 100%;"> <tr> <td>BU</td> <td>blue</td> <td>- / +</td> <td>N</td> </tr> <tr> <td>BN</td> <td>brown</td> <td>+ / -</td> <td>L OPEN</td> </tr> <tr> <td>BK</td> <td>black</td> <td></td> <td>L' CLOSE</td> </tr> <tr> <td>GN/YE</td> <td>green / yellow</td> <td></td> <td>PE</td> </tr> </table> <p style="text-align: center;">Do not connect other cable cores to sockets!</p>	BU	blue	- / +	N	BN	brown	+ / -	L OPEN	BK	black		L' CLOSE	GN/YE	green / yellow		PE	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Set the running direction switch to position <b>0</b> before connecting!</p> </div> <div style="border: 1px solid gray; border-radius: 10px; padding: 5px; text-align: center; margin-top: 10px;"> <p>Individual configuration</p> </div>
BU	blue	- / +	N														
BN	brown	+ / -	L OPEN														
BK	black		L' CLOSE														
GN/YE	green / yellow		PE														
<p><b>A</b> 24 V <math>\text{---}</math></p>	<p><b>B</b> 230 V <math>\sim</math></p> <p><b>Nur spannungslos stecken!</b> <i>plug voltage-free only!</i> </p>																

[www.aumueller-gmbh.de](http://www.aumueller-gmbh.de)

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