AIJGO-60
WALKING TESTER

INSTRUCTION MANUAL

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OVERVIEW

With an AIJGO-60 Walking tester you can measure the electrostatic charges which are generated on a person who walks on the floor. The device displays the measured values on an LCD display in numerical or graphical mode.

CE declaration

We declare that the AIJGO-60 product complies with the requirements of IEC 61340-5-1, ANSI/ESD S20.20 and Directive 2001/95/EC (General product safety).

THE PRODUCT AND ITS ACCESSORIES

- ▶ AIJGO-60 Walking tester
- ▶ Hand electrode
- ▶ Hand electrode cable
- ▶ Grounding cable
- ▶ 2 pcs crocodile clips
- ▶ Mini USB data cable
- ▶ Pendrive with softwares
- ▶ 4 pcs AA batteries

TECHNICAL DATAS

Sizes	93 x 185 x 35 mm (W x L x H)
Weight	ca. 350 g
Measuring range	±2 kV
Measuring accuracy	<±2 kV ➜ max. 10%; ±2 kV - ±5 kV ➜ Indication
Temperature measuring range	0 °C – 45 °C
Temperature measuring accuracy	±0,3%, max. ±0,5%
Temperature measuring frequency	~ 2 s
Humidity measuring range	10 – 85% RH
Humidity measuring accuracy	±2%, max. ±3,5%
Humidity measuring frequency	~ 2 s
Sample rate	250 µs
Data output	Via mini USB-B connection
Display	Graphic 128 x 64 pixel
Power supply	With 4 pieces of 1,5 V batteries or via USB cable
Operating time	ca. 12-14 hour

ABOUT CONSTRUCTION AND USE

Parts of the product

LCD display

On/Off button

Mode button

Mini USB socket

Hand electrode jack

Grounding cable jack

Button functions

On/Off button (2)	You can turn on/off the device with long keypress (3 sec.). With short keypress you can delete the MIN/MAX voltage values during operation.
Mode button (3)	You can switch between the graphical/numerical display of the charge measurement and the display of temperature and relative humidity values with short keypress. With long keypress (3 sec.) you can store the MIN/MAX values, if there is empty space in the measurement list.

OPERATION INSTRUCTIONS AND INFORMATION

Connecting accessories

1. Connect the grounding cable's protected yellow banana plug part to the „5" point of the device and the other end of the cable to the grounding.

2. Connect the hand electrode cable's protected green banana plug part to the „4" point of the device and the other end of the cable to the hand electrode.
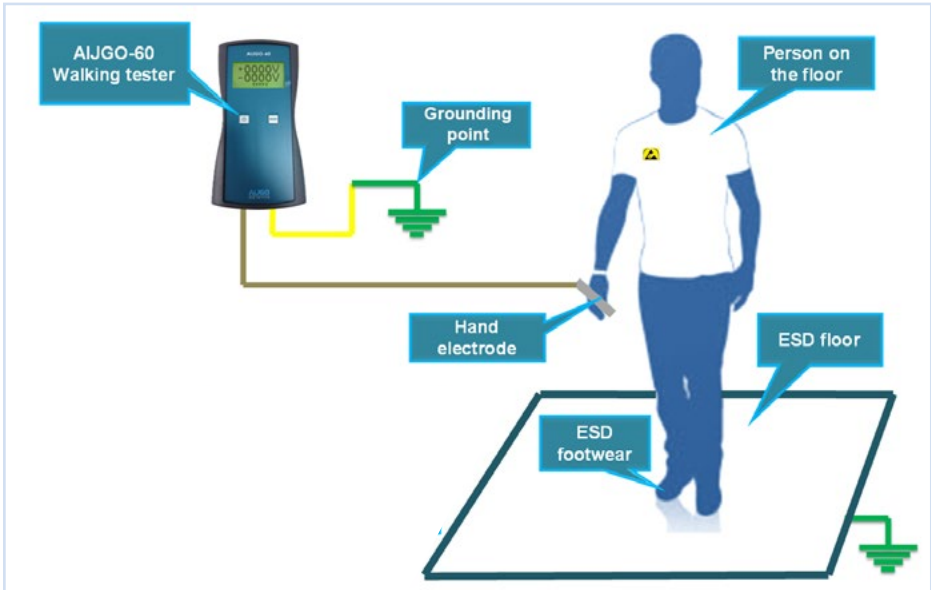

Switch on

Turn on the device with the On/Off button. After power on it shows a text similar to the following, with information about the device:

```
AIJGO-60
WALKING TESTER
S/N: 1234
Ver: v1.02
```

You can see it for 10 seconds, afterwards the device changes to the numerical display of the charge measurement values. If you do not want to wait this long, push the „MODE" button to reach the mentioned numerical display immediately.

WALKING TEST

Walk in ESD footwear on ESD floor and keep the hand electrode in hand:

When measuring temperature and humidity, make sure that you do not cover the sensor on the bottom of the device with your hands or other objects, and do not place the device on a cooled or heated surface, as this may affect the measurement results.

DISPLAY OF MEASUREMENT RESULTS

You can see an example for the numerical display of the charge measurement here:

```
+ 0894V
- 0072V
  0000V
```

The large numbers show the measured peak values, the small numbers at the bottom show the current values. You can switch between the graphical/numerical display of the charge measurement values and the display of temperature and relative humidity values with short keypress. In graphical display of the charge measurement you can see a voltage graph with a maximum offset of ±500 V. Over and under the graph you can see the measured peak values. The device records the peak values even when the display mode is changed.

STORING MEASUREMENT RESULTS

You can store the measured results by long pressing the „MODE" button. After this a notification can be seen on the display for 3 seconds. If there is still an empty space in the measurement list, a text similar to the following appears on the display:

```
MIN/MAX STORED
  LIST POS: x
```

The value „x" indicates the position in the measurement list where the measured peak values are stored. This list can hold up to 20 measurements. When it is full, it is not possible to store any more measurement results and the following message is displayed after a long press of the „MODE" button:
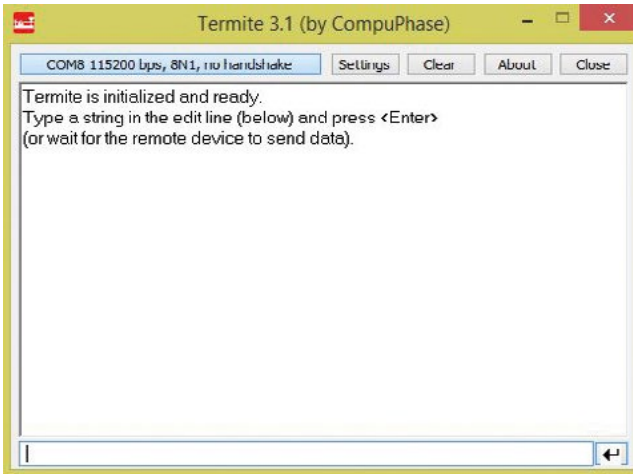
```
  LIST FULL
```

When the list is full, it is only possible to store new measurement results after deleting the list, which can only be done by a computer.
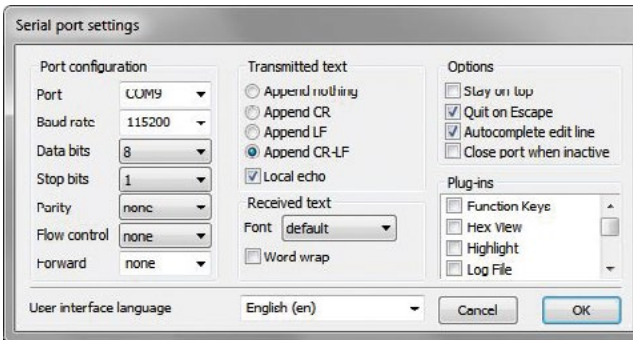
MANAGEMENT OF MEASUREMENT RESULTS ON COMPUTER

An AIJGO-60 can be connected to a computer with a USB-A – mini USB-B cable. For the management of measurement results on a computer, you need to install the driver program supplied on pendrive with the device, which assigns a virtual serial port to the tester. To do this, run the „CDM v2.08.30 WHQL Certified.exe" application as administrator (Right mouse button -> Run as administrator). If the installation is done, run the supplied terminal program (termite-3.1.exe). The program is running immediately after the installation is done, later you can use the shortcut in the Start menu (look for "Termite").

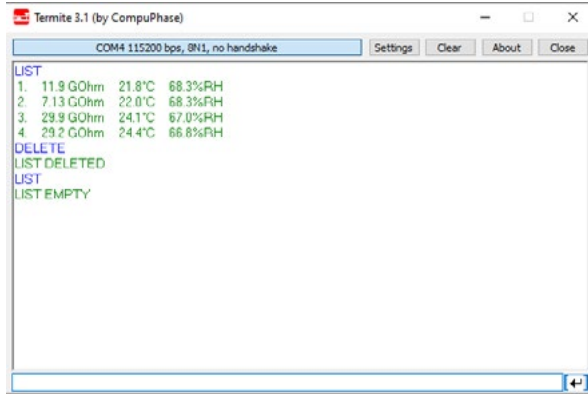On the startup of the terminal program, a window similar to the following image will appear:

Click on the „Settings" button and set up the terminal program based on the following:

In the "Port" field, enter the virtual serial port number assigned to the device. When you are done, click „OK".

Two commands can be used in the program to manage the stored data of an AIJGO-60 product: „LIST" and „DELETE". The commands can be sent by pressing "enter" after typing them. The following is a picture of the terminal program after a user has retrieved the stored list with the "LIST" command, deleted it with the "DELETE" command, and then retrieved the actual stored list with a "LIST" command again.

The listed data can be selected in the terminal program window and copied to somewhere else if necessary.

Maintenance

Replacement of batteries

By unscrewing two screws on the back of the device, you can remove the cover plate and then replace the batteries. Be sure to place them in the correct direction to avoid, also to avoid possible circuit damage.

Calibration

Calibration of the device is recommended once in every 2 years.

AiJ GO »

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