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AIJGO-60 / AIJGO-60BT

WALKING TESTERS

USAGE GUIDE

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OVERVIEW

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

CE declaration

We declare that the AIJGO-60 and the AIJGO-60BT 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 / AIJGO-60BT Walking tester
- Hand electrode
- Hand electrode cable
- Grounding cable
- 2 pcs crocodile clips
- Mini USB data cable (with AIJGO-60, AIJGO-60BT is packed without it)
- Pendrive with software and usage guide in the case of AIJGO-60, with only the usage guide in the case of AIJGO-60BT
- 4 pcs AA batteries

TECHNICAL DATA

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 frequency	~ 2 s
Sample rate	250 µs
Data output	Via mini USB-B connection (AIJGO-60) or via Bluetooth connection (AIJGO-60BT)
Display	Graphic 128 x 64 pixel
Power supply	With 4 pieces of 1,5 V batteries or in the case of AIJGO-60 it is possible via USB cable as well
Operating time	ca. 12-14 hour in case of using with batteries

ABOUT CONSTRUCTION AND USE

Parts of the product

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, in the case of AIJGO-60BT the value fixed on the display with „HOLD" function as well.
Mode button (3)	In the case of AIJGO-60 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. In the case of AIJGO-60BT you can switch between the numerical display of the charge measurement, the fixing of the measured values on the display („HOLD"), the graphical display of the charge measurement and the display of temperature and relative humidity values with short keypress.

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 (of course with „AIJGO-60BT" text in the case of AIJGO-60BT):

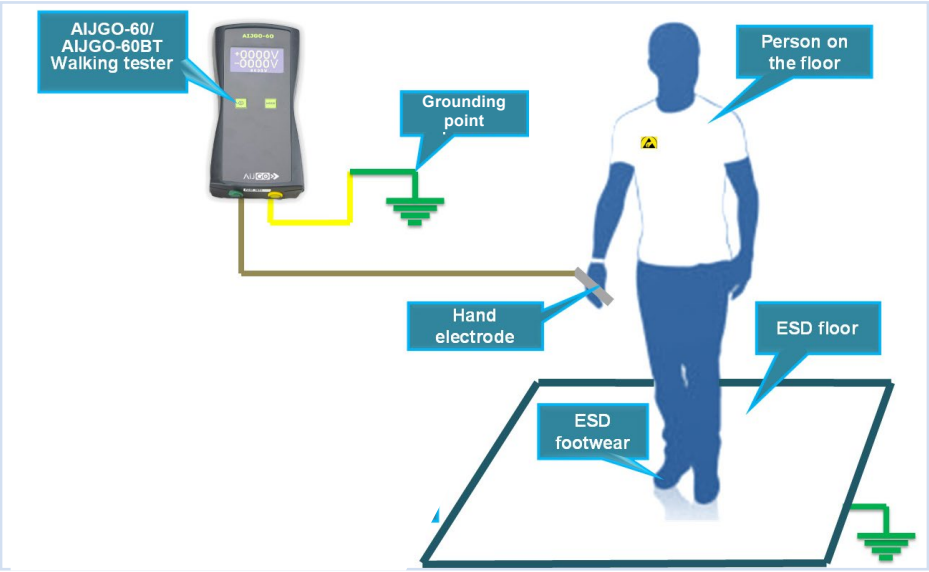
AIJGO-60

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

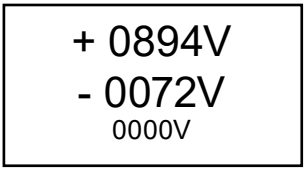
Walk in ESD footwear on ESD floor and keep the hand electrode in hand:



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:



The large numbers show the measured peak values, the small numbers at the bottom show the current values. In the case of AIJGO-60 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 on the „MODE" button. In the case of AIJGO-60BT you can switch between the numerical display of the charge measurement values, the fixing of the measured value on the display („HOLD"), the graphical display of the charge measurement values and the display of temperature and relative humidity values with short keypress on the „MODE" button.

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 IN THE CASE OF AIJGO-60

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:

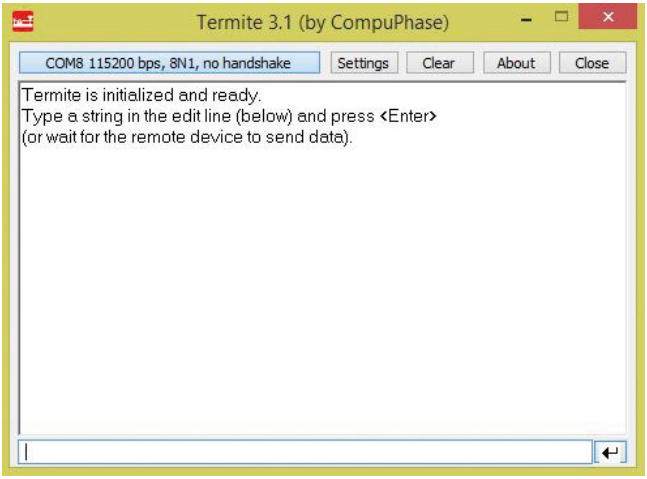
The value „x" indicates the position in the measurement list where the measured peak values are stored. This list can hold up to 20 measurements. When it is full, it is not possible to store any more measurement results and the following message is displayed after a long press of the „MODE" button:

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.

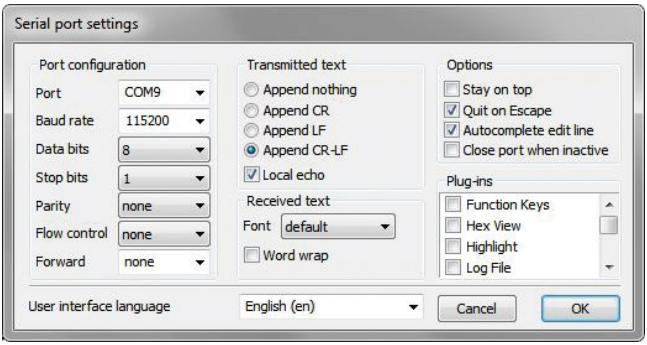
MANAGEMENT OF MEASUREMENT RESULTS ON COMPUTER IN THE CASE OF AIJGO-60

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 (usable with Windows operation system) 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:

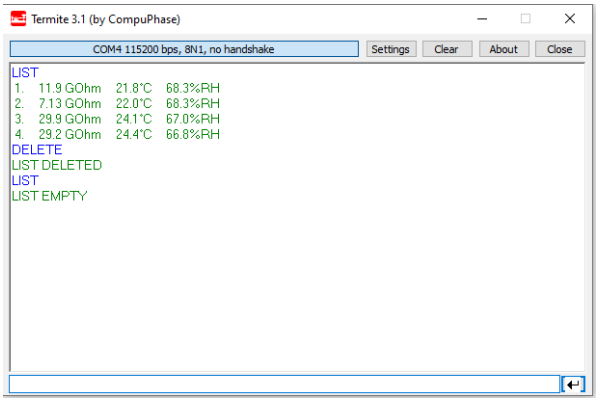


Click on the „Settings" button and set up the terminal program based on the following:



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.

Handling measurement results in the ESD Wise system in case of the AIJGO-60BT

The measured data from the AIJGO-60BT product can be received via Bluetooth on an Android smart device using the ESD Wise Android smart device application. This app can then wirelessly transmit the data to the ESD Wise management software. For more information about the ESD Wise management system, please contact the team at D és Tsa Bt., or visit the following website: www.esdwise.com.

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.

The images in this document are for information purposes only. The design, the accessories, the technical specifications and various details of the product can be changed. We reserve the right to sell such changed product without notice. In case of improper use other than as described in this documentation or in case of modification of the product which D és Tsa Bt. has not given its written consent, our company may reject any warranty claims.

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