

Blista-Brailletec gGmbH
Industriestr. 11
D - 35041 Marburg - Germany
Tel. +49-6421-8020 • Fax +49-6421-80214
e-mail: brailletec@brailletec.de
Internet: www.brailletec.de

M u l t i t a l k

Talking Multimeter

User Manual



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1. Intended use of the device

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The **Multitalk** device is designated as voice output of the measured values of the included Multimeter and sliding caliper under the conditions given in the technical data.

It can be used in private, educational and with restrictions (no Explosion protection, environmental conditions according data sheet!) in a professional surrounding.

Any other use than stated can lead to damage of the device and other consequences like electric shocks, fire and so on.

We can not be made liable for any further damage resulting from non-compliance with these directions. Warranty rights will also be forfeited.

Caution

This device was manufactured under a strict quality control system. Should there nevertheless show up a defect or malfunction that cannot be cleared with the advices of this manual, please return the device to our Service center. Any unauthorised re-pair forfeits the warranty!

CE- Conformity declaration

This device corresponds with EU-rule for electromagnetic compatibility (89/336/EWG) and low voltage (72/23/EWG)

CE

metec Ingenieur AG
Hasenbergstr. 31
70178 Stuttgart
www.metec-ag.de

2. Integrity of shipment

Please check the box for completeness of the following parts. In case anything should be missing, please contact your distributor.

Sliding caliper with cable, multimeter with cable, temperature sensor, multitalk speech box, replacement batteries, set cable, CD-rom, manuals



Sliding caliper with cable



Multimeter with cable



Multitalk
Speech box



Temperature sensor



Replacement batteries
4 x AA
1 x button cell LR44



1 Set cables



CD-Rom
PC-Software



Manuals for
Multimeter and
Caliper

3. Introduction

Multitalk is a new talking measuring device for multiple applications like measuring temperature, voltage, current, resistance, frequency, capacity length, diameter, thickness and others.

4. General

This manual describes how to use the speech device. Separate manuals for the multimeter and the caliper are enclosed.

The speech device has a pleasant human voice which is easy to understand. And it is easy to use. The speech is activated by one single button. The same button toggles between multimeter and caliper. To save energy, the device switches automatically into „sleep“-mode after a few seconds. So one set of batteries is sufficient for more than 2000 spoken measuring values. Two languages are installed and can be used by the flip of the slider switch on the upper left side. Speech volume can be adjusted by the wheel below. Both multimeter and caliper are connected to the speech box and ready to use. They can be used without taking everything out of the box. No external power supply is necessary.

Warning

Before using the device, please read the general safety instructions in chap. 9.

5. How to start

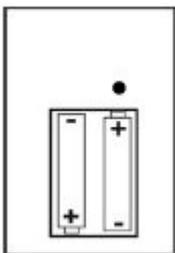
5.1 Installing the batteries

You find the battery compartment on the backside of the **Multitalk** device. To open, push the cover downwards to the lower end and take it off. Install two AA-batteries (Mignon, AA, AM3, LR6) and replace the cover.

Warning

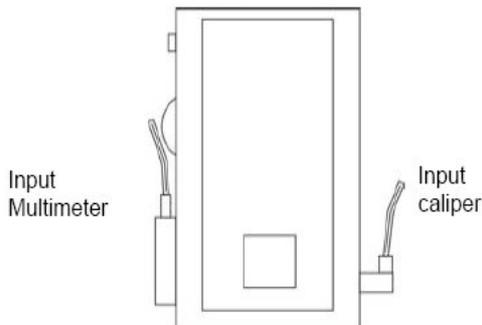
Please take care for correct polarity of the batteries

To facilitate the installation of the batteries, there is a tactile mark for the positive + pole in the upper right corner of the battery compartment:



5.2 Connectors

On the left side, of the **Multitalk** speech device the caliper is plugged in, on the right side the data cable of the multimeter. Through these two connectors the digital measuring results are transferred to the **Multitalk** device.



The jack plugs have different diameters, so the devices cannot be plugged into the wrong connector.

6. Operating instructions

On the left side of the **Multitalk** device, there is a sliding switch and a regulator wheel.

The switch toggles between the two installed languages. Usually you can choose between English and the national language.

The wheel regulates the speech volume. Turning it upwards increases the volume

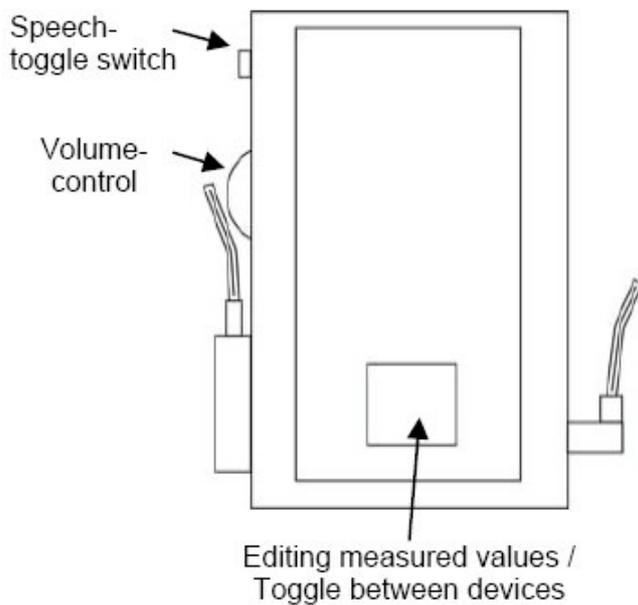
On top of the **Multitalk** device, there is one central key.

By a short touch of the key the present measuring result is read out. Each additional keystroke on the central key repeats the value.

Holding the key for more than 4 seconds, the speech output toggles between the two measuring devices. While switching there is a voice announcement of the active device.

The measured value of the sliding caliper can also be edited by pressing the key on the cable of the slider.

After a short time, the speech device goes automatically into a „Sleep mode“. With this technology it is possible to edit more than 2000 values with a single set of batteries.



7. Trouble shooting

The device does not work at all:

Verify that there is sufficient battery power remaining.
 Make sure that the measuring means are properly connected.
 When switched to the multimeter, check that this is switched on.

Speech volume is too low

Verify that there is sufficient battery power remaining.
 Increase the volume with the control wheel on the left side.

You hear an unknown language

Change the language with the toggle switch on the left side.

Values of the sliding caliper are not edited

Verify that there is sufficient battery power remaining.

The multimeter readout is not edited

Verify that there is sufficient battery power remaining.
 Make sure that the Multimeter is connected properly.
 Verify that the multimeter is switched on (Only when the Multitalk is set up for the multimeter).
 Verify that the RS232 of the multimeter is switched on

A wrong value is edited

Toggle by pressing the central key for 4 sec. to the proper data source.
 Check the measuring range of the multimeter.

8. Technische Daten

Languages	Englisch, National Language
Volume of sound	Adjustable
Environmental conditions	Temperature 5 to 40°C, Humidity 10 to 70%
Power source	2*cells AA; 1,5V; Alkaline
Current	ca. 120 mA average
Dimensions (H*B*T)	107*70*28mm
Weight	165g
Connectors	2,5mm jack 4-poles and 3,5mm jack mono
Case dimensions (H*B*T)	320*390*90mm
Case weight	1,8kg

9. Safety advice

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Do never expose the device to rain, moisture or humidity. Malfunctions and damages could result.

Do not leave the device in direct sunlight or leave it in dusty environment.

Do not shake the device heavily or expose it to hard shocks.

Do not put heavy items on top.

Clean the device only with a soft dry cloth.

Do not use any solvents for cleaning in order to avoid damaging the outer surface.

Do by no means open the case of the device and do not try to repair or modify it.

If the device shall not be used for a longer period, take the batteries out. Run-down batteries should be recycled properly.

Avoid hearing problems by keeping the speech volume within acceptable limits.

10. Advice for disposal

Please do not dispose the device with normal household garbage. Please return it to your distributor or to a corresponding collecting point to allow an environmental friendly recycling.

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11. Warranty conditions

For our products we warrant according to the following stipulations:

1. We warrant our products for 24 months. Within 12 months after the purchase date any defect or damage will be amended free of charge according to the conditions given below. For defects or damages of the product found more than 12 months after the purchase date only evident faulty manufacturing will cause a free warranty repair. Our warranty does not include batteries and other parts that are considered as consumables, very fragile parts like glass or plastic, and defects caused by normal wear. A warranty is not caused by small aberrations from the basic standard, which have no influence on value or usability of the product, by damage caused by chemical or electrochemical agents, by water or other unusual reasons.
2. In case of a warranty claim the defective part will be repaired or replaced by a faultless part at our choice. Metec also retains the right to exchange the product against an equivalent product in case the returned device cannot be repaired within a reasonable time or cost frame. Likewise, a returned product may also be exchanged against an equivalent other model of the product. An on-site repair can not be claimed. Replaced or exchanged parts will become the property of Metec.
3. Warranty is void when repair or other encroachments have been made by unauthorised persons or when our product is used with additions and accessories not adapted to our products.
4. Warranty claims do not extend the warranty period nor do they start a new warranty term. Warranty for replaced parts expires with the warranty period of the product.
5. Further claims, in particular claims for compensation of damages outside of the product, are excluded – as far a liability is not prescribed by the law. We are not liable for incidental, indirect or other follow-on damages of any kind, which could lead to reduced usability, loss of data, loss of profit or interruption of work

Asserting a warranty claim

1. To use our warranty service, contact the metec service center by e-mail, fax or phone. Contact data see below.
2. Metec Service-Center will try to diagnose and solve your problem; If we find a warranty case, you will be asked to ship the product back to Metec.

Metec Ingenieur AG
Hasenbergstr. 31
70178 Stuttgart
contact@metec-ag
Tel +49 711 666030
Fax +49 711 6660333