

ENERGY CHECK LCD



(GB) OPERATING INSTRUCTIONS

(D) BEDIENUNGSANLEITUNG

(F) MANUEL D'UTILISATION

(RUS) ИНСТРУКЦИЯ

(I) MANUALE D'ISTRUZIONE

(H) HASZNÁLATI UTASÍTÁS

(E) INSTRUCCIONES DE MANEJO

(LV) LIETOŠANAS INSTRUKCIJA

(FIN) LATAUSLAITE

(S) INSTRUKTIONSMANUAL

(P) INSTRUÇÕES

(NL) GEBRUIKSAANWIJZING

(PL) ZASTOSOWANIE

(CZ) NÁVOD K POUŽITÍ

(EST) KASUTUSJUHIS

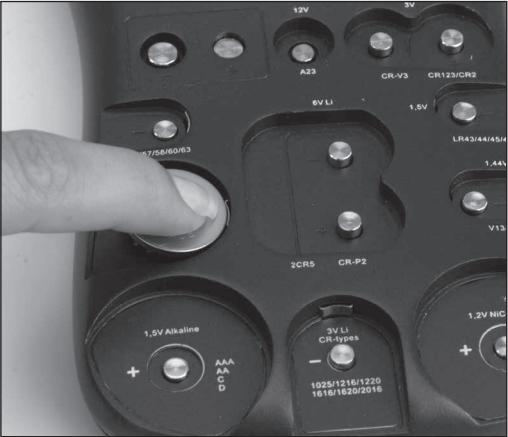
(SK) NÁVOD NA POUŽITIE

(SLO) NAVODILA ZA UPORABO
ZA POLNILNIK

(RO) INSTRUCIUNI DE UTILIZARE

(GR) ΟΔΗΓΙΕΣ ΧΕΙΡΙΣΜΟΥ

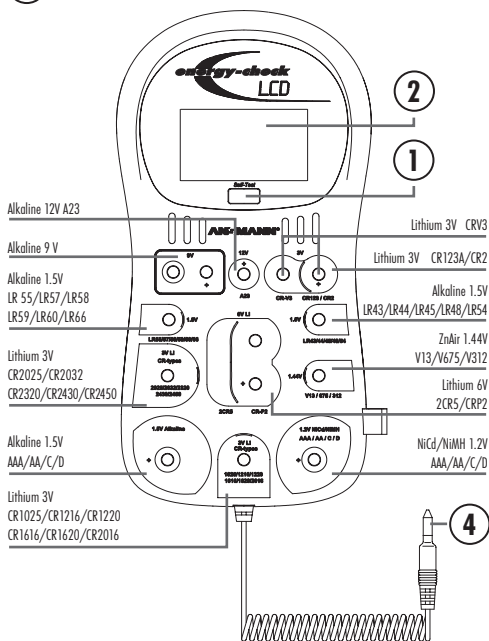
BUTTON CELLS / KNOPFZELLEN



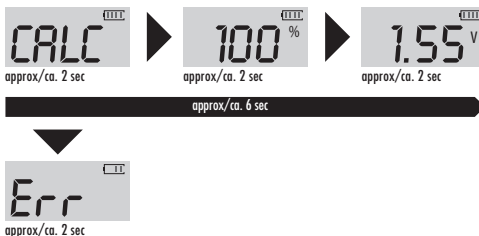
CYLINDRICAL CELLS / RUNDZELLEN



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MEASUREMENT / MESSVORGANG





INSTRUCTION MANUAL FOR ENERGY CHECK LCD

USE OF THE ENERGY CHECK LCD

This is a high quality tester designed to test popular primary batteries and rechargeable batteries. By using "CAM-Technology"* the capacity of the cell under test will be indicated accurately in only two seconds.

* Computer Aided Measurement

SAFETY INSTRUCTIONS

- Please read the operating instructions before use.
- Keep the equipment in a dry place.
- Only for use within this specification.
- Do not subject the equipment to high temperatures or to high humidity.
- To clean the device, please disconnect the internal 9V block battery.
- Only use a dry cloth for cleaning.
- Keep out of reach of children.

If the safety instructions are not followed, this may cause damage to the device or serious injury to the user.

FEATURES:

- Reliable battery tester for all common cell types.
- Ultra fast testing.
- Indicates the cell capacity in 10% steps.
- Indicates the battery voltage in V.

THE FOLLOWING CELLS CAN BE TESTED:

1.5 V Alkaline cylindrical cells: Micro AAA; Mignon AA; Baby C; Mono D

9V Alkaline: 9V-block

12V Alkaline: A23

1.5 V Alkaline button cells: LR 43; LR 44; LR 45; LR 54; LR 55; LR 57;
LR 59; LR 60; LR 66

1.44 V Zinc-Air button cells: V 675; V13; V 312

3V Lithium button cells: CR 1025; CR 1216; CR 1220; CR 1616; CR 1620; CR 2016;
CR 2025; CR 2032; CR 2320; CR 2430; CR 2450

3V Lithium Photo batteries: CR 2; CR 123A; CR-V3

6V Lithium Photo batteries: CR-P2; 2CR5

1.2 V NiCd/NiMH rechargeable batteries: Micro AAA; Mignon AA;
Baby C; Mono D

LCD-DISPLAY(2):

- "CALC": Measurement (Calculation)
"80 %": Cell capacity in 10%-steps.
"1.53 V": Cell voltage in volts.
"Err": Error.

On the display a battery bar graph symbol will be shown. This bar graph shows the cell capacity in %: 4 bars: 100-90%; 3 bars: 80 - 60 %; 2 bars: 50 - 30 %; 1 bar: 20 - 10%; no bar: 0%

OPERATION:

The device requires a 9V battery for power (supplied). To fit, open the battery compartment on the back of the device, and snap the battery into the appropriate contacts. Close the battery compartment.

Push the button "Self-test" (1) for approximately two seconds to check the capacity of the inserted battery.

Because a nearly empty 9V battery may affect the test result, we recommend replacement of the battery if the capacity is $\leq 20\%$!

HOW TO MAKE MEASUREMENTS:

There are no settings necessary to test cells.

1. Select the appropriate test terminal for the battery under test (see table (3))
2. Place the battery on the test terminals, paying attention to the polarity. (Both contacts must be connected) An additional test pin (4) should be used if testing cylindrical cells. This test pin must connect to the minus pole of the cylindrical cell!
3. Please connect the battery for approximately two seconds. The display shows "CALC"
4. The capacity of the cell will be shown in 10 % steps for approximately two seconds.
5. The voltage of the cell will be shown in volts for approximately two seconds.

IMPORTANT TIPS FOR BETTER TESTING:

- When testing cylindrical cells please push the test pin with high pressure to the battery to guarantee a correct measurement!
- Please ensure that the contacts of the test terminals and the contacts of the cells are clean.
- With a new battery it is possible that the full capacity may not be shown. The cell needs to "wake up". Please test again.

IN CASE OF PROBLEMS:

"Err":

- Incomplete measurement. Please connect the cell for approximately two seconds.
- With a deeply discharged cell the display may switch from "CALC" to "Err".

NO DISPLAY:

- The internal 9V block battery is not inserted, or not connected.
- The internal 9V block has low voltage. (Please test with the button "Self - test" (1))
- The cell under test is deeply discharged.
- The cell under test is defective (High resistance etc.)



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