MANUAL



Volt Meter Set VMS 023

For Electro Field Meter EFM 023 or EFM 022

Product Description

In combination with the Volt Meter Set VMS 023 the EFM 023 becomes a Walking-Test-Monitor to make a walking test according to EN 61340-4-1 and EOS/ESD S.3.1.

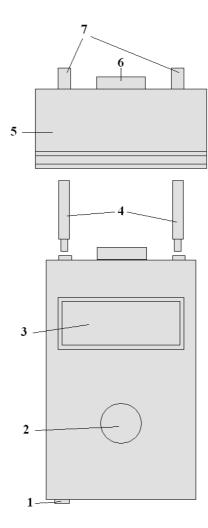
Together with the Voltage Measuring Head MK 023 and the Field Meter EFM 023 (022) you get a voltage meter with an impedance of 10^{16} Ohm.

You can measure charges up to 4kV. Select the distance of 1cm on the EFM to display the right values.

Important

Please read the safety instructions in the Manual of the EFM 023 (022)

Legend



- **1** Grounding socket
- **2** «function/on» Button
- 3 EFM 023 Display
- 4 Metal spacers
- **5** Voltage Measuring Head
- **6** voltage Input socket
- **7** Fixing screws

Specifications

Voltage Measuring Head

Dimensions (L x B x H):	80mm x 40mm x 37mm
Weight:	80g
Input Voltage DC:	max. 4kV

Hand electrode

Dimensions (L x d):	75mm x d25mm
Weight:	100gr
Surface:	nickel-plated

Operating instructions

Preparation of the device

To set the device up the following steps are necessary:

Prepare the CPS socket and put the EFM 023 in vertically (only with CPS)	
Change plastic spacers 20mm with metallic spacers 28mm (4)	
Fasten the measuring head (5) on the matallic spacers	
Connect Ground to the grounding socket	
Turn on EFM 023 and wait until «Dist = 2cm» is displayed	
Press «function/on» until «change Mode» appears	
Press «function/on» several times until «MAX-Mode» appears	
Wait 2 seconds to select MAX mode	
Connect the Hand-Electrode with the silicon cable to the Measuring Voltage Head (6)	
The device is ready	

Test procedure

To make a walking test do the following points:

Press «function/on» to reset the MAX - Values	
Take the Hand-Electrode into your hand and start the walking test	
In the upper row of the display (3) the max values are displayed.	
In the lower row the curren voltage is displayed	
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Press the function/on button to Hold the max values	
Start a new walking test	

By using an EFM 023 with the A/D Converter UAC 110 and a PC, you can write and save the results. You also can display a chart on the PC.

Parts included:

VMS 023

- Voltage measuring Head MK 023
- Hand-Electrode
- Silicon cable 2m with Banana plugs

OPTIONAL

UAC 110

