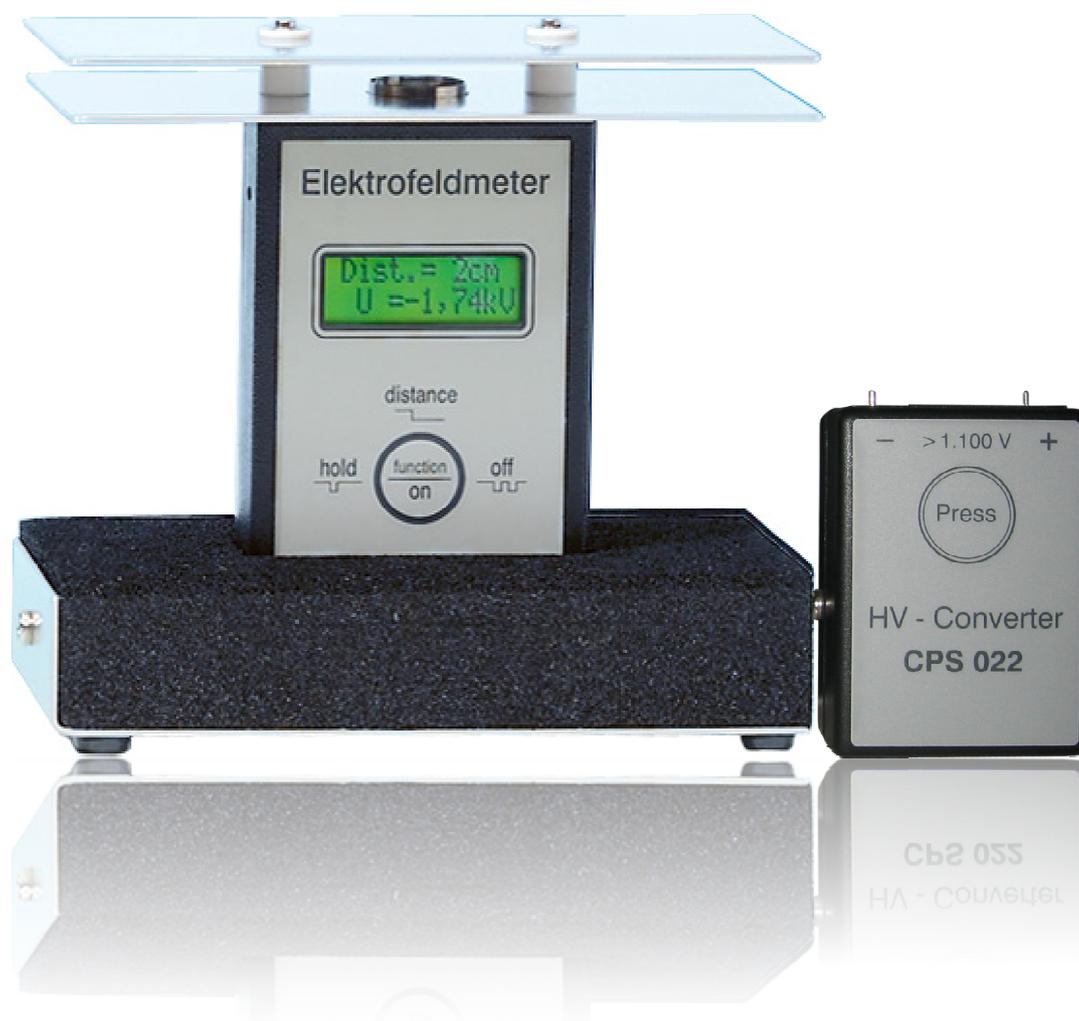




MANUAL



Charge Plate Set CPS 022

For Electrostatic Field Meter EFM 022

Product Description

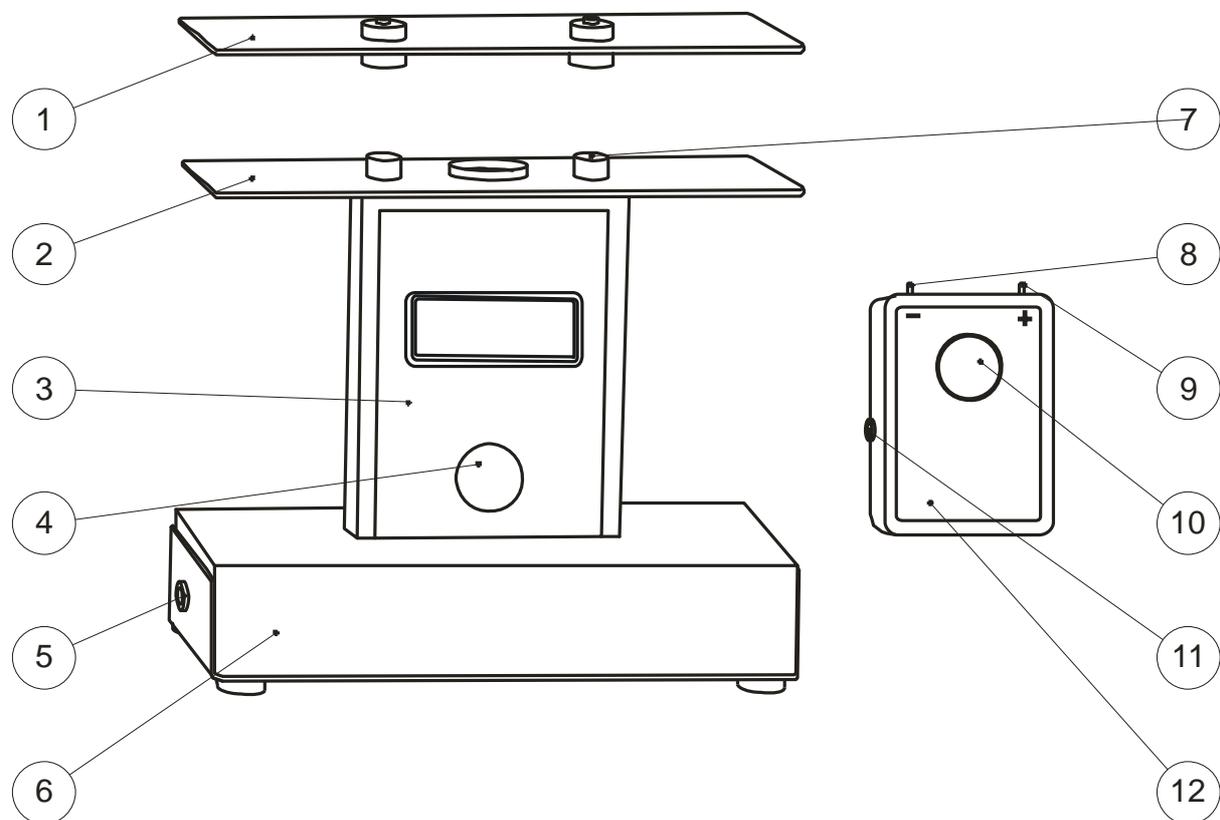
In combination with the Charge-Plate-Set CPS 022 the EFM 022 becomes a Charge-Plate-Monitor suited to supervise air ionizers according to EN 61340-5-1 and EOS/ESD S.3.1.

The charge electrode's capacity¹ corresponds to the above-mentioned norms, but not its dimensions². Although reproducible measurements can be performed, for standardized measurements the Kleinwächter Charge Plate Monitor CPM 374 has to be used.

The device determines the discharging time from +1.000V ... +100V or -1.000V ... -100V with its integrated timer. Charging is performed by an external high voltage converter.

Kindly note that in CPS mode only voltages < 2000V are displayed!

Legend



- | | | | |
|---|----------------------|----|---------------------|
| 1 | Field plate | 7 | Mounting screw |
| 2 | Grounding plate | 8 | Negative pole |
| 3 | EFM 022 | 9 | Positive pole |
| 4 | Button «function/on» | 10 | Button |
| 5 | Grounding connector | 11 | Grounding connector |
| 6 | CPS socket | 12 | HV converter |

¹ 20pF

² 75mm x 150mm instead of 150mm x 150mm

Specifications

HV converter

Dimensions (L x W x H):	86mm x 64mm x 26mm
Weight :	130g
Charging potential:	> $\pm 1100V$
Battery:	9V NiMH battery
Operating time:	Approx. 10h

Plate capacitor

Dimensions (L x W):	75mm x 150mm
Plate distance:	10mm
Capacity :	20pF $\pm 2pF$

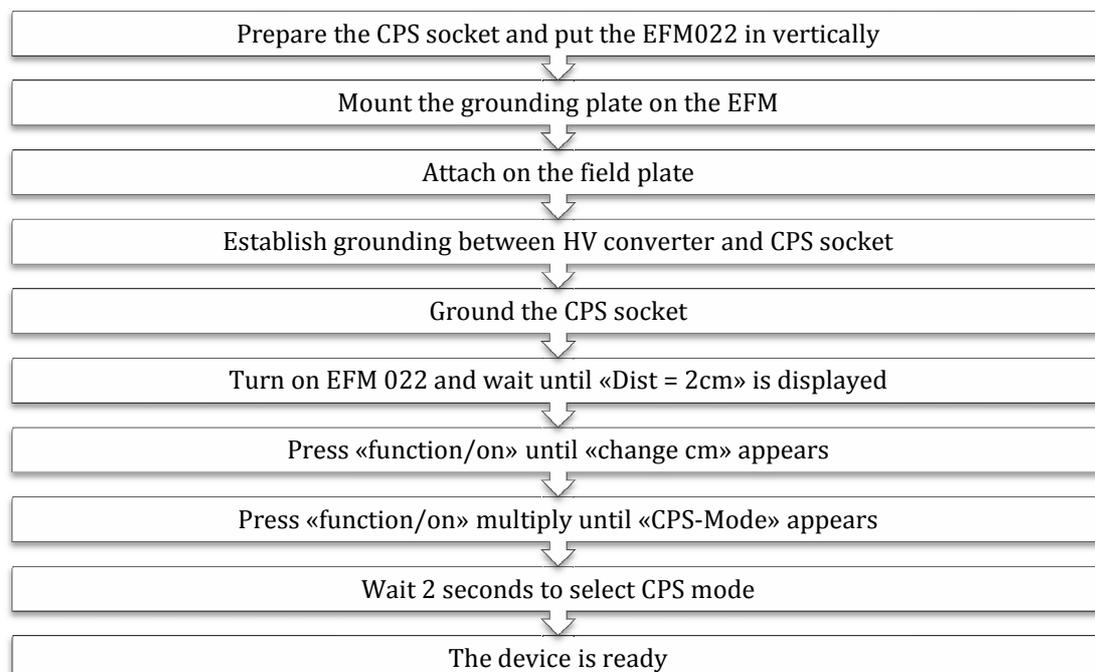
CPS socket

Dimensions (L x W x H):	75mm x 150mm x 35mm
Material:	Conductive foam / aluminium
Grounding:	2 banana connectors

Operation instructions

Preparation of the device

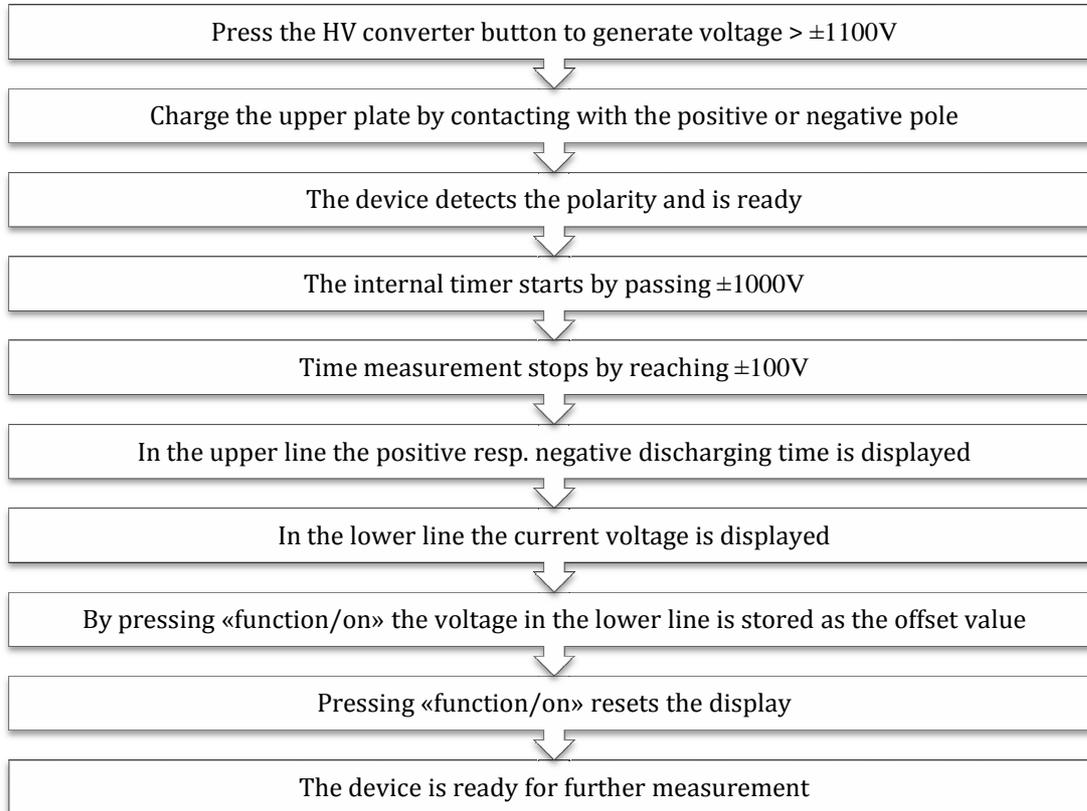
To set the device up the following steps are necessary:





Measuring procedure

To measure the discharging time follow the steps below:



Scope of delivery

CPS022

- HV converter
- 9V-NiMH battery
- Plug-in charger EC109
- CPS socket
- Plate capacitor
- Grounding cable 1m und 1,5m
- Alligator clip
- Carrying case

EFM 022 CPS

Same as CPS 022, but additionally with

- EFM 022
- Two 9V-NiMH-batteries
- 2 spacers 2cm