

Safeguard Electric field meter, digital, incl. case



The electric field meter from SafeGuard guarantees precise measurements for maximum protection against electrostatic discharge (ESD) thanks to its high-quality components and conductive polymer casing. At the upper end of the device is a star-shaped influence electrode, at a short distance in front of this rotates a modulation impeller of the same star shape, which is connected to ground. The influence electrode is enclosed by a ring electrode system which serves as mechanical protection for the modulation impeller and the field plate. The front panel display is a 2x12-digit alphanumeric LCD display. The also has an analog output $\pm 1V$. This is switched on in the manual E-field meter ranges.

Further functions of the Safeguard electrostatic field meter

Hold function: the measured value can be frozen, allowing accurate measurements to be made even in hard-to-reach places.

E-fieldmeter ranges: Manually switchable between $\pm 20kV/m$, $\pm 200kV/m$ and $\pm 1MV/m$.

When using this function, the $\pm 1V$ analog voltage output is turned on.

Charge Plate function (CPS set required, not included): After the plate capacitor is screwed

on, it is charged to above $\pm 1,100\text{V}$ with the HV encoder. When discharging, the time from $\pm 1,000\text{V}$ to $\pm 100\text{V}$ is measured and the positive / negative discharge time is displayed.

- Type of measurement: Influence principle (field mill principle).
- Conversion of the measured field strength over the set measuring distance into the charge in volts
- "One-button" operation
- Very high zero point stability: Necessary adjustment before each measurement is not necessary (compared to other systems)
- Permanent battery voltage monitoring with automatic shutdown
- Two-line, 12-digit alphanumeric LCD display
- Adjustment accuracy: $< 5\%$
- Output voltage (only with man. E-field measurement): $\pm 1\text{V}$ ($R_i > 1\text{k}\Omega$)
- Operating mode: battery operation
- Operating time: approx. 10h with alkaline battery
- Measuring range: 0 to $\pm 200\text{ kV}$ (distance mode), 0 - 1 MV/m (field strength mode)
- Output: $\pm 1\text{V}$ ($R_i > 1\text{k}\Omega$) proportional to the measured field strength (only in "E-Field Measurement" mode)
- Standard measuring distance: 2cm

Alternative item description	Safeguard SFM PRO
item number	WL73724
manufacturer	KW-SG
manufacturer item number	SFM PRO
length	70 mm
width	122 mm
height	26 mm
scope of supply	<ul style="list-style-type: none"> • Preparedness bag • Electric field meter (EFM) from SafeGuard • 9V battery • grounding cable • Operating instructions (on USB card) • Calibration certificate
order unit	1 piece
content unit	1 piece
display type	digital
range	0 to $\pm 200\text{ kV}$ (distance mode), 0 - 1 MV/m (field strength mode)
ESD safe	yes