

FMX-003™ Electrostatic Fieldmeter

SIMCO **FMX-003** fieldmeter is a compact electrostatic fieldmeter used for locating and measuring static charges. Its pocket size makes it handy to use and three-button operation makes it easy to operate.

The **FMX-003** measures static voltages within $\pm 22\text{kV}$ (22,000V) at a distance of 1". Results are simultaneously displayed numerically and in bar graph format. POWER on/off, ZERO adjustment, Ion Balance (IB) and HOLD are all push button operation. The HOLD button allows the display to retain the static charge reading. This is especially useful where display is difficult to see during measurement.

Two LED guide lights help position the fieldmeter at the right distance from a charged test object. The conductive case and ground snap facilitate grounding for accurate measurement. The circuitry of the **FMX-003** has been designed to make measurements in areas using air ionization.

FMX-003 Specifications

- Part number: 4010724
- Display features:
 - Push button POWER, HOLD, ZERO and Ion Balance operation
 - Bar graph - red LCD for positive polarity voltage; blue LCD for negative polarity voltage; Bar graph precision for low range is $\pm 0.1\text{ kV}$, for high range is $\pm 1.5\text{ kV}$ and $\pm 15\text{ V}$ for ion balance
 - Battery capacity and error display indicators
- Measurement capability:
 - Measuring range: 0 to $\pm 1.49\text{ kV}$ (low range); $\pm 1.0\text{ kV}$ to $\pm 22.0\text{ kV}$ (high range); 0 to $\pm 220\text{ V}$ (ion balance measuring range)
 - Measuring distance: $1" \pm 1/64"$ (25mm $\pm 0.5\text{mm}$); LEDs guide for correct distance (between charged object and fieldmeter)
 - Response time: Display updates less than 5 times per second
 - Accuracy: $20\text{ kV} \pm 10\%$
- Alarm features: Beep sound will be heard during power on, power on with Auto off, power off and over range.
- Power: 9 V, 6F22Y manganese battery
- Size: 4 7/8" (123mm) (L) \times 2 7/8" (73mm) (W) \times 1" (25mm) (D)
- Weight: 6 oz. (170g)



FMX-003 Features

- Easy to read, easy to use operations
- Lightweight, compact design
- Range light assures accurate and repeatable measurements
- Automatic range switching up to $\pm 22\text{kV}$ (22,000V) at 1" (25mm)
- Digital and bar graph display
- Automatic power off after five minutes (may be disabled if preferred)