

## FMX-002 Electrostatic Fieldmeter



Optional plate for verification tests

**SIMCO's Model FMX-002 Electrostatic Fieldmeter is a compact, portable instrument for measuring electrostatic charge. The FMX-002 measures positive and negative polarity electrostatic charges to 20kV (20,000V) at a distance of one inch (25mm). Two LED guide ring lights on the measuring side of the unit converge at the proper distance from a test object. The conductive case and ground lead facilitate reference grounding for accurate measurement.**

The FMX-002 can also be used for periodic verification of ionizer balance performance to  $\pm 200V$  by attaching a charge plate.

The handy, compact design of this unit allows electrostatic survey measurements in all work areas. It can be used for:

- Determining static charge levels and the need for neutralization
- Deciding the placement of ionizers
- Periodic verification readings

### Features

- Bar graph indicates field polarity and intensity
- Easy plate attachment for ion balance measurement
- Portable, compact and lightweight
- Auto-ranging digital display
- Automatic off function
- HOLD function holds even after power is turned off
- Battery condition display (4 stages)
- Multi-function audible alarm
- Includes vinyl storage case, ground lead, and battery

# FMX-002 Electrostatic Fieldmeter

## Specifications

### Measurement Range:

Electrostatic Field Measurement

Low Range:  $\pm 1.5\text{kV}$

High Range:  $\pm 20.0\text{kV}$

Ion Balance Measurement

(Charge Plate Installed)

Low Range:  $\pm 150\text{V}$

High Range:  $\pm 2.0\text{kV}$

### Absolute Accuracy:

Static Electricity and Ion

Balance Measurements

High Range:  $\pm 10\%$  of full scale

Low Range:  $\pm 10\%$  of full scale

### Numeric Display Resolution

#### (Least Significant Digit Weight):

Electrostatic Field Measurement

Low Range: 0.01kV

High Range: 0.1kV

Ion Balance Measurement

(Charge Plate Installed)

NOTE: Decimal place must be disregarded in this mode

Low Range: 1V

High Range: 10V

### Bar Graph Display Resolution:

Red LCD: Positive Polarity Voltages

Green LCD: Negative Polarity Voltages

Electrostatic Field Measurement

Low Range: 100V / Bar Segment

High Range: 1kV / Bar Segment

Ion Balance Measurement

(Charge Plate Installed)

Low Range: 10V / Bar Segment

High Range: 100V / Bar Segment

### Measurement Distance:

1 inch (25 mm)

### Response Time:

1 second

### LCD display renewal rate:

5 times/second

### Ambient conditions:

10~40°C and 0~60%RH

### Display features:

- Battery capacity display indicator
- HOLD switch to retain display after measurement
- Error sign (Err) appears if the sensor is damaged

### Auto power-off:

Power is turned off automatically if the unit is left on for five minutes.

### Audible indication:

- Power-on; one beep
- Over range; Continuous sound
- Auto power-off; At 1-second interval for 5 seconds before power-off

### Power:

9V, 6F22 manganese battery.

Battery life is in excess of 30 hours.

### Size:

4-1/2"(L) x 2-1/2"(W) x 1"(H)

(115mm x 65mm x 25mm)

With charge plate

4-3/4"(L) x 2-5/8"(W) x 1"(H)

(122mm x 65mm x 27mm)

### Weight:

4.6 oz (130 g) with battery

7 oz (200 g) with battery and

charge plate

### Case materials:

Conductive resin (ABS)

### Part Numbers

FMX-002 Compact

Hand-held Fieldmeter .....4008744

FMX-002 Fieldmeter

with charge plate .....4008745

FMX-002 Charge Plate only .....5051021



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