



OPERATING INSTRUCTION MANUAL

BFN-TE1003 (Electrostatic Field Meter)

PRODUCT INTRODUCTION

BFN-TE1003 is a handheld electrostatic field meter which is widely used to test the static voltage and ion balance with 3 quick easy operation buttons.

Measures static voltages within $\pm 22\text{kV}$ (22,000V) at a distance of 1" (25mm). Results are simultaneously displayed numerically and in bar graph format. POWER (On/Off), ZERO adjustment, ION BALANCE (IB), and HOLD are all pushed button operation.

The testing distance guaranteed by 2 aligned LED lights for static voltage and a conductive plate for ion balance test.

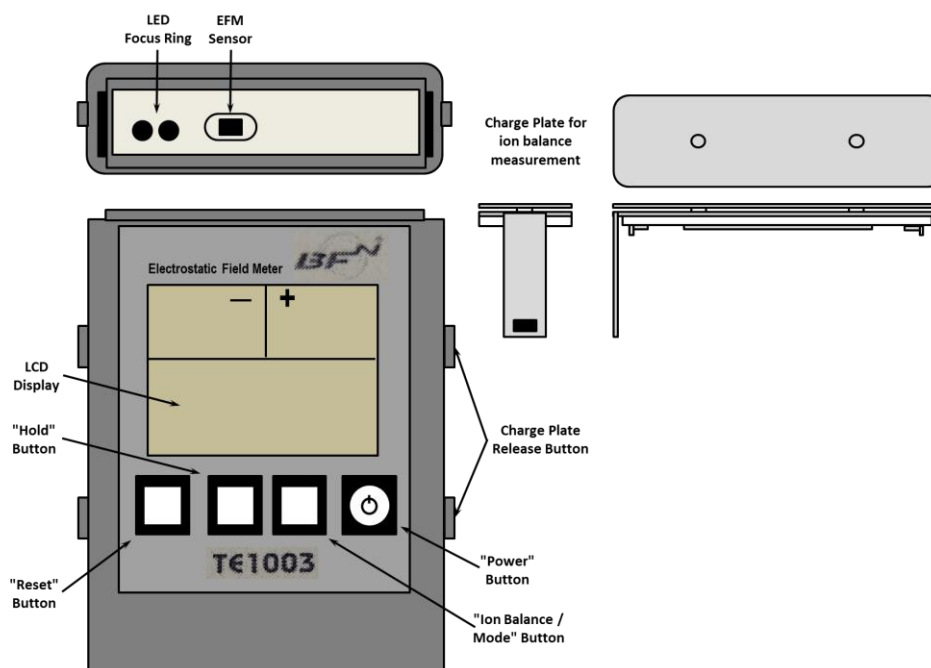


Notes: Please make sure the tester is well grounded while conducting the test.

SPECIFICATION

- Static Voltage:
0 – $\pm 1.49\text{kV}$ (Min), 1.0kV – $\pm 22.0\text{kV}$ (Max)
- Ion Balance: 0 – $\pm 220\text{V}$
- Testing Distance: 25mm $\pm 0.5\text{mm}$
- Accuracy: $\pm 10\%$
- Reaction Time: < 5 times/second
- Equipment Alarm: Power On/Off, Over the testing range, automatic power off
- Display: LCD (Digital display and Bar graph)
- Weight: 138g (Excluding battery)
- Dimension: L123mm X W73mm X H25mm
- Material/Color: Conductive ABS/Gray

STRUCTURE

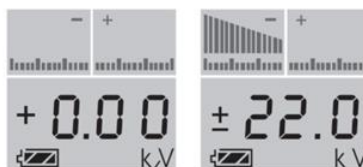




OPERATION

■ Static Voltage

While the material's voltage is being tested with static voltage testing mode (standard mode), the testing value will be shown the LCD display.

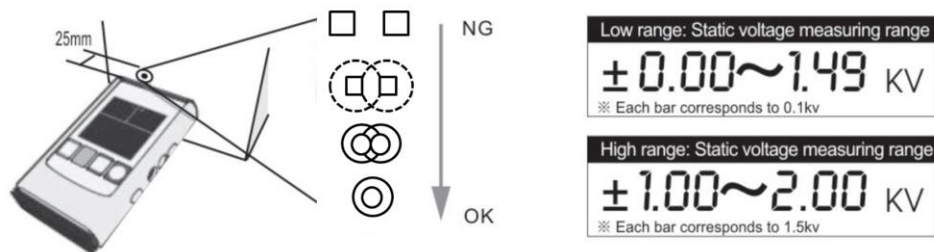


There will be an alarm if the testing result is over the testing range of $\pm 22.0\text{kV}$.

Standard Mode: Pushed the power switch  till the static voltage mode is displayed.

■ Testing distance confirmation

The best testing distance between the tested items and TE1003 is $25\text{mm} \pm 0.5\text{mm}$, continue testing if the 2 red LCD pointers has matched to as one.

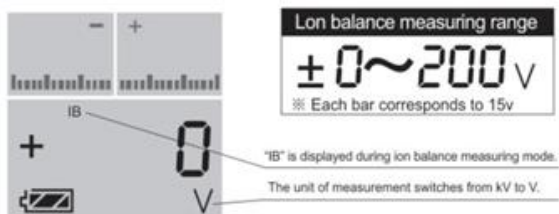


■ Ion Balance

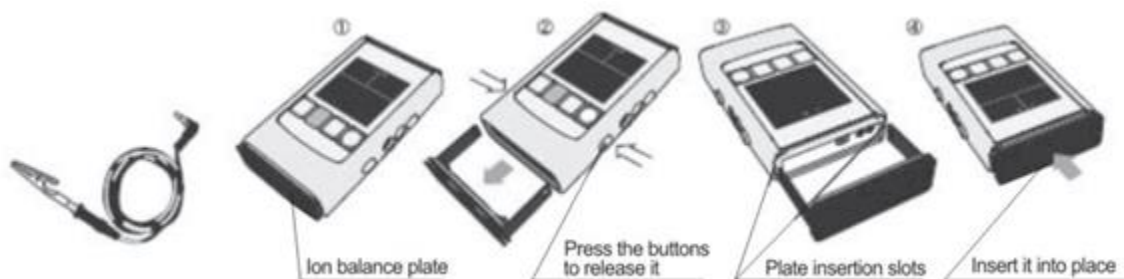
Pushed power on and press the ion balance button.



Residual voltage will be tested while tester is in ion balance mode. Its handheld design makes sure it can be used in small workstation or areas such as internal area of an automatic machine.

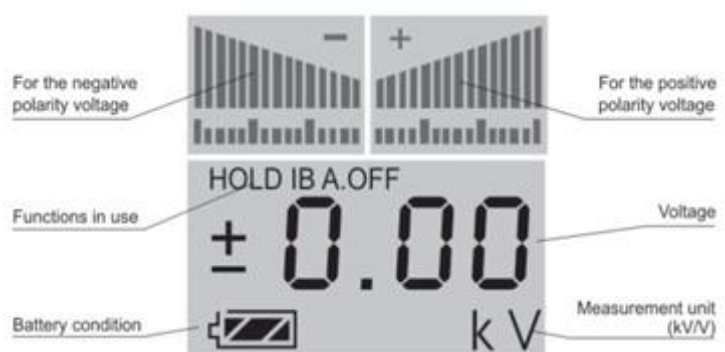


Ion Balance Plate Installation



! Notes: Please make sure the tester is within the range of ionizer upon testing.

3 Types LCD Displays



BATTERY CONSUMPTION DISPLAY



ALARMS

- There will be “BEEP” sound while testing.
- Power on with 1 beep
- Power off mode with 3 beeps
- Power off automatically with 5 beeps

CALIBRATION

It is suggestion to conduct calibration 1 time per year. Calibration report is available upon selling. Calibration of tester is available in HORB factory at certain cost. TE1003 has awarded a CE certification.

Operating manual is only for BFN-TE1003 users. It includes the tester’s components, operation and some concerning information, some upgrading property with continuing stability, slightly difference will be allowed with operation and manual.



Suppliers Information

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