715 STATIC METER

The 715 Static Meter has been developed to enable industrial engineers to investigate static electricity problems.

Its accuracy, stability and ease of use make it the leading instrument in its class.



PERFORMANCE

- The 715 measures static electricity on the surface of a material or body at a distance of 100 mm.
- The meter can show where and how the static is generated, its magnitude and its polarity.
- It can measure static electricity levels up to 200,000 V.

ESSENTIAL QUALITIES

- Two ranges which are selected automatically:
  - 0 - 20 kV with a resolution of 10 V.
  - 20 - 200 kV with a resolution of 100 V.
- Accuracy at calibration: +/- 5 %.
- There is a 'hold' facility to freeze the reading on the display.
- Comes complete with carrying case, battery and earth cord.

APPLICATIONS

- Static electricity is a difficult area to investigate without a method of measurement.
- The 715 is an important quality and safety tool. It enables the engineer to investigate static problems, monitor the effectiveness of solutions and set standards for acceptable levels – whether in the process or on the product.

OPTIONS

- For hazardous areas, see ATEX certified EX-715 Static Meter.

SPECIFICATION

Construction:
Anodised aluminium case with recessed stainless steel sensing plate for maximum integrity and accuracy.

Range / Resolution / Accuracy:
0 V - 20 kV / 10 V increments and 20 kV - 200 kV / 100 V increments.
Automatic range selection. Measurement at 100 mm. Accuracy at calibration is better than +/- 5 %.

Drift:
<0.1% in 10 seconds.

Calibration:
On a 150 mm x 150 mm charge plate. Can be calibrated on other charge plate sizes to meet country standards e.g 450 mm x 450 mm for China.

Operation:
Click button to zero and make readings. Click button again to 'hold' the reading. Click again to resume readings. Automatic switch-off after 60 seconds. Low volt indicator shows condition of battery.

Equipment:
Supplied with carrying case, 9 V PPS battery, earth lead and certificate of calibration.

Environmental:
70 % rH non-condensing max.

Certification:
CE. EN-500081-1 (EMC) and BS7506-2 (Construction).

FRASER Anti-Static Techniques

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HOW IT WORKS

Static electricity is a potential problem in many industrial areas. It slows production, reduces product quality, attracts contaminants and gives shocks to operators. The 715 enables the engineer to investigate these static electricity problems scientifically. Static is a coulombic charge - forming current when it moves, but difficult to measure when it is not moving. The 715 measures the surface voltage using Q=CV: the 100 mm reading distance is the constant capacitance which allows the voltage to vary directly with the charge.

DIMENSIONS AND CONSTRUCTION

Dimensions: 124 mm x 24 mm x 64 mm

Weight: 175 g

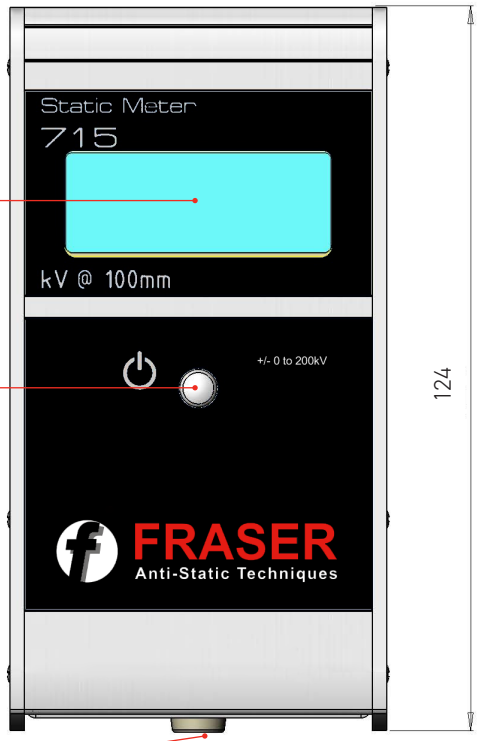
Recessed sensing head shielded from non-target electrical fields.



Clear 3½ digit LCD Display.

'ON' button:

- One press turns ON.
- Second press holds reading.
- Third press reactivates reading.
- Power turns off after 60 seconds.



Earth bonding connection. A 3 mm curly earth cord with a crocodile clip / 4 mm bayonet connector is supplied.

Battery cover, secured by a screw at both sides.

