

ID-107 Hand Held Field Meter

The Model ID-107 field meter is a compact unit with the controls conveniently placed for hand-held operation making it well suited to investigating electrostatic problems in experimental and industrial situations.

The field meter is lightweight and powered by internal rechargeable batteries for quick explanatory studies around the operating plant. The instrument is suited to be used for modest duration observations or on fixed locations.

The four ranges of sensitivity allow observation of electric field and field polarity ranging from 1KV/m up to 1000KV/m FSD.

The field meter is supplied in a carrying case with mains battery charger and instructions.

The model ID-107 field meter (like other field meters in the IDB range) is a rotating vane type of instrument. The basic principle is that a probe surface exposed to an electric field has an electric charge induced on it, in proportion to its area and the strength of local electric field. With a defined capacitance to earth this charge is manifested as a potential which can be presented to the input of a high impedance amplifier to generate a signal directly related to the strength of the electric field.

In many situations it is only necessary to use a field meter qualitatively, to see if small or large electric fields are present and to see how these vary with time and position and, for example, with changes in the operating parameter of plant. At time it is necessary to use field meter observations in quantitative manner. The model ID-107 field meter is provided with a 125mm diameter grounded plate which enables the observations to be interpreted in terms of plane parallel field geometries, when the field meter is within about 100mm of reasonable uniform potential surfaces or distribution of charge.

Our engineering consultants would be pleased to discuss your requirements with you, and we invite you to contact our team at info@idbsystems.co.uk, alternatively you can call us on +44 (0) 1492 864 126.



SPECIFICATIONS & FEATURES

Power Supply:	Internal rechargeable batteries and stabilised supply; built-in battery test indicator; mains battery charger unit supplied.
Sensitivity Ranges:	0-1KV/m FSD 0-10KV/m FSD 0-100KV/m FSD 0-1000KV/m FSD
Signal Output:	Buffered output on miniature jack for external signal display or recording.
Earthing:	The field meter is provided with an earthed connection terminal, but for normal portable use the instrument is adequately earthed via the handle and through the operator.
Dimensions & Weight:	69 x 70 x 193mm long with 115mm deep handle. 1.3kg in weight.
Meter Display:	Centre zero analogue meter.

Please email support@idbsystems.co.uk for further details.