



rf/microwave instrumentation

Model FP7018/Kit, FP7018M1/Kit
Electric Field Probe Kit
3MHz–18GHz
0.6–1000 V/m

The FP7018/Kit includes the FP7018 probe, 10 meter glass cable, international battery charger and carrying case.

The FP7018 is a broadband isotropic electric field measurement instrument for use in EMC and EMI applications. The FP7018 communicates through glass fiber optic cables (up to 100 meter cable between the FM7004 and the FP7018) to the master control center FM7004. The operator can select any single axis of the three axis probe or a composite reading.



FP7018 SPECIFICATIONS

Frequency Response (w/calibration factors applied)	± 1.8 dB, 3MHz–10 MHz ± 0.5 dB, 10MHz–200MHz ± 1.4 dB, 200MHz–8 GHz ± 1.8 dB, 8.0 GHz–18 GHz)
Analog Response Time.....	50 usec
Isotropic Deviation.....	± 1.5 dB (10 MHz–8 GHz) ± 2 GHz (f > 8 GHz)
Sensitivity	0.6–1000 V/m
Linearity	± 3 dB (0.6–1.65 V/m) ± 1 dB (1.65–3.3 V/m) ± 0.5 dB (3.3–300 V/m) ± 0.7 dB (300–1000 V/m)
Damage Level.....	1600 V/m CW and 16,000 V/m peak
Probe Sampling Rate	60Hz, 50Hz, 5 Hz.- user selectable
Data Transfer Rate.....	> 30 samples per second
Power Requirements	2 built-in NiMH batteries, size AA, rechargeable, changed by operator, 40 hours operating life per charge.
Battery Charger.....	Standard recharger included, 3 hour charge time.
Dimensions	Approx. 420 x 85 x 65 mm including base and probe head.
Probe Head Diameter	65mm
Weight.....	350g approx.
Ranges.....	Single continuous range
Operating Temperature Range.....	0 to 50°C

Model	Description
FP7018/Kit	NIST-traceable calibration report supplied with probe
FP7018M1/Kit	A2LA-accredited calibration report supplied with probe