

Fluke 345 Power Quality Clamp Meter

FLUKE



Fluke 345

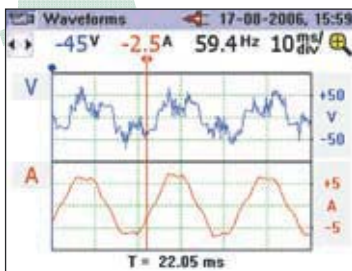
The ideal troubleshooting tool for modern electrical loads

The Fluke 345 measures a wide range of electrical parameters for troubleshooting power disturbances in single- and three-phase electrical loads. With a bright color display to see waveforms and trends, a low-pass filter to remove high frequency noise, and a high EMC immunity design, the Fluke 345 is ideal for measurements on switching loads such as variable speed drives, electronic lighting and UPS systems.

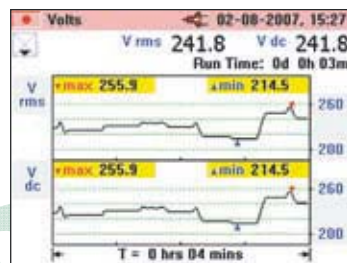
- **High safety rating:** 600V CAT IV / 1000V CAT III rated for use at the service entrance
- **ac/dc current measurements:** Clamp-on measurement of ac peak and dc current up to 2000 A without breaking the circuit
- **Harmonic analysis:** Analyze, display and log harmonics up to the 30th harmonic (40th harmonic for 15 Hz to 22 Hz)
- **Verify batteries:** Direct measurement of dc ripple (%) for battery and dc systems

Specifications

(Check the Fluke web for detailed specifications)



View waveforms for equipment checking and setup



Log parameters over time to track down intermittent faults



Current measurement	
DC, DC rms, AC rms	All measurements DC and 15 Hz to 1 kHz. Maximum overload 10,000 A or RMS x frequency < 400,000. Amps rms is a true rms measurement (AC + DC).
Measuring range	0 - 2000 A dc or 1400 AC rms
Harmonics	All measurements up to 30th harmonic (40th harmonic for 15 Hz to 22 Hz); Frequency range F0 : 15 Hz to 22 Hz and 45 Hz to 65 Hz; lacrms > 10A
Voltage measurement	
DC, DC rms, AC rms	All measurements DC and 15 Hz to 1 kHz. Maximum overload 1,000V rms. Volts rms is a true-rms measurement (AC + DC).
Measuring range	0 - 825 V DC or AC rms
Harmonics	All measurements up to 30th harmonic; Frequency range F0 : 15 Hz to 22 Hz and 45 Hz to 65 Hz; Vacrms > 1V
Watts measurement (single- and three-phase)	
DC, DC rms, AC rms	
Measuring range	0 - 1650 kW DC or 1200 kW ac
VA measurement (single- and three-phase)	
DC, DC rms, AC rms	
Measuring range	0 - 1650 kVA DC or 1200 kVA ac
VAR measurement (single- and three-phase)	
Measuring range	0 - 1250 kVAR
Power factor (single- and three-phase)	
Measuring range	0.3 cap...1.0... 0.3 ind (72.5° cap...0°... 72.5° ind)
Displacement power factor	
Measuring range	0.3 cap... 1.0... 0.3 ind (72.5° cap...0°... 72.5° ind)
Kilowatt Hour (kWh)	
Measuring range	40,000 kWh
Scope function	
Time base	2.5 ms, 5 ms, 10 ms, 25 ms, 50 ms/div
Current management:	
Ranges	10 A/20 A/40 A/100 A; 200 A/400 A/1000 A/2000 A
Voltage measurement:	
Ranges	4 V/10 V/20 V/40 V/100 V; 200 V/400 V/1000 V
Inrush current function	
All measurements dc and 15 Hz to 1 kHz	
Ranges	40, 400 and 2000 A
Memory	
	Up to 50 screen shots and over 150,000 individual measurement values

Power supply: 1.5 V Alkaline AA MN 1500 or IEC LR6 x 6 Battery
Battery life (typical): >10 hours (backlight on full); >12 hours (backlight reduced)
Safety: IEC 61010-1 600 V CAT IV, 1000V CAT III (maximum input phase-phase 825V rms) double or reinforced insulation, pollution degree 2
Protection: IP40; EN60529
Operating temperature: 0 °C to 50 °C

Display: Color transmissive LCD 320 x 240 pixels (70 mm diagonal) with 2 level backlight
Digital output: USB interface to a PC
Size (HxWxD): 300 mm x 98 mm x 52 mm
Jaw opening: 60 mm
Jaw capacity: 58 mm diameter
Weight (including batteries): 0.82 kg
Two Year Warranty

Included Accessories

Soft carrying case, Power Log software, Test probes, Test leads, Alligator clips, International ac adapter / battery eliminator, Printed English User manual, Multi-language manual on CD

Ordering Information

Fluke 345 Power Quality Clamp Meter

Recommended Accessories



TLK291
See page 101



TP220
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AC220
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TP1
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C550
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字宏企業股份有限公司 RADIOTEK CORPORATION

台北縣三重市重新路五段609巷16號6樓之1

TEL: 02-22782269 FAX: 02-22782059

Home page : www.radiotek.com.tw

E-mail : salesmag1@rdmail.com.tw