chanhvinh.com

FLUKE®

Fluke 355/353

True-rms 2000 A Clamp Meters

Technical Data

High current and a large jaw, make these clamps well suited for industrial and utility applications

Confidently take reliable readings with the true-rms, Fluke 355/353 Clamp Meters; the tools of choice for high-current measurements up to 2000 A. The extra-wide jaw easily clamps around large conductors typically found in high-current applications. The rugged design and CAT IV 600 V, CAT III 1000 V ratings, add an extra element of protection when taking high-powered measurements.

Accurate peak measurements can be taken using the in-rush current mode, ideal for motors and inductive loads. The 355 also measures voltage and resistance, making this the most versatile tool for utilities, electrical contractors, and industrial service technicians.



1000 V CAT III
600 V CAT IV

N10140

- Reliably handle a wide range of high-current applications with 2000 A ac + dc true-rms, 1400 A ac, and 2000 A dc
- The large 58 mm (2.3 in) jaw capacity is suitable for large, or multiple conductors
- CAT IV 600 V, CAT III 1000 V rating for added user protection
- In-rush current measurement captures 'power-on' surge current with accuracy and repeatability
- High voltage measurement of 1000 V ac + dc true-rms, 600 V ac, and 1000 V dc allows users to perform multiple tests with only one tool (355 only)
- Resistance to 400 kΩ coupled with a continuity beeper, provide the convenience of a multimeter (355 only)
- Accurately measure frequency up to 1 kHz for optimum troubleshooting
- Quickly analyze readings using the MIN, MAX, and AVG functions
- A large backlit display allows for easy visibility in low-lit areas
- Use the display hold feature to capture readings even when the display cannot be viewed
- Use the low-pass filter to smooth out noisy loads and stabilize readings

chanhvinh.com

FLUKE®

Specifications

Electrical specifications

Current measurement dc and ac 10 Hz to 100 Hz

Range	Resolution	Accuracy, A	Trigger Level for Inrush	Trigger Level for Hz Filter OFF	Trigger Level for Hz Filter ON
40 A	10 mA	1.5 % rdg + 15 digits	0.50 A	2.50 A	0.50 A
400 A	100 mA	1.5 % rdg + 5 digits	5.0 A	2.5 A	2.5 A
2000 A; 1400 ac rms	1 A	1.5 % rdg + 5 digits	5 A	8 A	8 A

Crest Factor (50/60 Hz)

Range	Crest Factor*
40 A	2 @ 33 A, 2.4 @ 27 A
400 A	2 @ 330 A, 2.4 @ 270 A
2000 A; 1400 ac rms	2 @ 1000 A, 2.4 @ 833 A

*Add 2 % to error spec for CF > 2

Current measurement ac 100.1 Hz to 1 kHz

Range	Resolution	Accuracy > 10 A	Trigger Level for Inrush	Trigger Level for Hz Filter OFF	Trigger Level for Hz Filter ON
40 A	10 mA	3.5 % rdg + 15 digits	0.50 A	2.50 A	0.50 A
400 A	100 mA	3.5 % rdg + 5 digits	5.0 A	2.5 A	2.5 A
2000 A; 1400 ac rms	1 A	3.5 % rdg + 5 digits	5 A	8 A	8 A

Voltage measurement (355 only) dc and ac 10 Hz to 100 Hz

600 V and 1000 V ranges have 10 % over range to 660 V and 1100 V respectively.

Range	Resolution	Accuracy	Trigger Level for Hz Filter OFF	Trigger Level for Hz Filter ON
4 V	1 mV	1 % rdg + 10 digits	0.050 V	0.050 V
40 V	10 mV	1 % rdg + 5 digits	0.25 V	0.25 V
400 V	100 mV	1 % rdg + 5 digits	6 V	6 V
600 V ac rms	1 V	1 % rdg + 5 digits	6 V	6 V
1000 V dc	1 V	1 % rdg + 5 digits	N/A	N/A

Voltage measurement (355 only) ac 100.1 Hz to 1 kHz

600 V and 1000 V ranges have 10 % over range to 660 V and 1100 V respectively.

Range	Resolution	Accuracy	Trigger Level for Hz Filter OFF	Trigger Level for Hz Filter ON
4 V	1 mV	3 % rdg + 10 digits	0.050 V	0.050 V
40 V	10 mV	3 % rdg + 5 digits	0.25 V	0.25 V
400 V	100 mV	3 % rdg + 5 digits	6 V	6 V
600 V ac rms	1 V	3 % rdg + 5 digits	6 V	6 V

Ohms measurement (355 only)

Range	Resolution	Accuracy
400 Ω	0.1 Ω	1.5 % + 5 digits
4 kΩ	1 Ω	1.5 % + 5 digits
40 kΩ	10 Ω	1.5 % + 5 digits
400 kΩ	100 Ω	1.5 % + 5 digits

chanhvinh.com

FLUKE®

Continuity beeper (355 only)

On at ≤ 30 Ω
Off at ≥ 100 Ω

Frequency measurement

Measurement range	5.0 Hz to 1 kHz
Resolution	0.1 Hz (15 Hz to 399.9 Hz); 1 Hz (400 Hz to 1 kHz)
Accuracy – 5.0 Hz to 100 Hz	0.2 % + 2 counts
Accuracy – 100.1 Hz to 1 kHz	0.5 % + 5 counts
Trigger level	Refer to current and voltage tables

General specifications

Batteries	Six 1.5 V AA NEDA 15 A or IEC LR6
Battery life (with typical usage, backlight off)	100 hours
Test leads	Rated to 1000 V
Weight	.814 kg (1.8 lb)
Jaw size	58 mm (2.28 in)
Dimensions (LxWxD)	300 mm x 98 mm x 52 mm (12 in x 3.75 in x 2 in)
Safety rating	IEC 61010-2-032, 600 V CAT IV, 1000 V CAT III

Environmental specifications

Operating temperature	32 °F to + 122 °F (0 °C to +50 °C)
Storage temperature	-4 °F to 140 °F (-20 °C to +60 °C)
Operating humidity	0 to 95 % (non-condensing)
Operating altitude	2000 m
Storage altitude	10,000 m
IP rating	42 (indoor use only)
Drop test requirements	1 m
EMI, RFI, EMC	FCC part 15, IEC/EN 61326-1:1997 class B, IEC/EN 61326:1997 3V/m, performance criteria B, EN61325
Temperature coefficients	Current: 0.1 % of reading per °C outside 22 °C to 24 °C Voltage: 0.1 % of reading per °C outside 22 °C to 24 °C

Ordering information:

Fluke-353 AC/DC True-rms Clamp Meter, 2000 A, Amps only
Includes: C43 Soft Carrying Case, 6 AA batteries, and users manual

Fluke-355 AC/DC True-rms Clamp Meter, 2000 A
Includes: C43 Soft Carrying Case, 6 AA batteries, TL224 1.5 m Silicone Rubber Test Leads, TP2 Test Probes, AC285 Alligator Clips, and users manual



Fluke-355



Fluke-353

Fluke. *Keeping your world up and running.®*

Fluke Corporation
PO Box 9090, Everett, WA USA 98206

Fluke Europe B.V.
PO Box 1186, 5602 BD
Eindhoven, The Netherlands

For more information call:
In the U.S.A. (800) 443-5853 or
Fax (425) 446-5116
In Europe/M-East/Africa +31 (0) 40 2675 200 or
Fax +31 (0) 40 2675 222
In Canada (800) 36-FLUKE or
Fax (905) 890-6866
From other countries +1 (425) 446-5500 or
Fax +1 (425) 446-5116
Web access: http://www.fluke.com

©2007 Fluke Corporation.
Specifications subject to change without notice.
Printed in U.S.A. 9/2007 3094045 D-EN-N Rev A