

# 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

Ind large und in highhe rugged 00 V, CAT III an extra elewhen taking ements. 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.



- 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 kW 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



# **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

<sup>\*</sup>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 W	0.1 W	1.5 % + 5 digits
4 kW	1 W	1.5 % + 5 digits
40 kW	10 W	1.5 % + 5 digits
400 kW	100 W	1.5 % + 5 digits



#### Continuity beeper (355 only)

On at  $\leq 30 \text{ W}$ Off at  $\geq 100 \text{ W}$ 

#### 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



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