

# FLUKE®

## Fluke 116/322 HVAC Multimeter and Clamp Meter Combo Kit

### Technical Data



For the complete solution to HVAC troubleshooting, the extra value-packed HVAC Multimeter and Clamp Meter Combo Kit, provides the ability to troubleshoot and solve problems more efficiently by providing all the needed accessories an HVAC professional would need in a compact carry case.

#### **Fluke-116/322 HVAC Multimeter and Clamp Meter Combo Kit includes:**

- Fluke-116 HVAC Multimeter with Temperature and Microamps
- Fluke-322 Compact Clamp Meter
- TL75 Hard Point Test Lead Set
- ToolPak Magnetic Meter Hanging Strap
- **New!** C115 Deluxe Carrying Case with shoulder strap
- **New!** 80PK-11 Velcro Pipe clamp Thermocouple
- **New addition!** Fluke 80AK Thermocouple Adapter
- 80PK-1 Thermocouple Bead Probe
- 3-year product warranty on Fluke-116 DMM, 2-year warranty on Fluke-322 Clamp Meter and 1-year warranty on Accessories

**Buying the kit saves you  
20% compared with with  
purchasing individual items**

# 116 Specifications

Measurement	Range	Resolution	Accuracy ± ([% of reading] + [counts])
DC millivolts	600.0 mV	0.1 mV	0.5 % + 2
DC volts	6.000 V	0.001 V	0.5 % + 2
	60.00 V	0.01 V	
	600.0 V	0.1 V	
Auto volts	600.0 V	0.1 V	2.0 % + 3 (dc, 45 Hz to 500 Hz) 4.0 % + 3 (500 Hz to 1 kHz)
AC millivolts <sup>1</sup> true-rms	600.0 mV	0.1 mV	1.0 % + 3 (dc, 45 Hz to 500 Hz) 2.0 % + 3 (500 Hz to 1 kHz)
AC volts <sup>1</sup> true-rms	6.000 V	0.001 V	1.0 % + 3 (45 Hz to 500 Hz) 2.0 % + 3 (500 Hz to 1 kHz)
	60.00 V	0.01 V	
	600.0 V	0.1 V	
Continuity	600 Ω	1 Ω	Beeper on < 20 Ω off > 250 Ω; detects opens or shorts of 500 μs or longer.
Ohms	600.0 Ω	0.1 Ω	0.9 % + 2
	6.000 kΩ	0.001 kΩ	0.9 % + 1
	60.00 kΩ	0.01 kΩ	
	600.0 kΩ	0.1 kΩ	
	6.000 MΩ	0.001 MΩ	
	40.00 MΩ	0.01 MΩ	
			1.5 % + 2
Diode test	2.000 V	0.001 V	0.9 % + 2
Capacitance	1000 nF	1 nF	1.9 % + 2
	10.00 μF	0.01 μF	
	100.0 μF	0.1 μF	
	9999 μF	1 μF	
	100 μF to 1000 μF		1.9 % + 2
	> 1000 μF		5 % + 20
Lo-Z capacitance	1 nF to 500 μF		10 % + 2 typical
Temperature <sup>2</sup> (Type-K thermocouple)	-40 °C to 400 °C	0.1 °C	1 % + 10 <sup>2</sup>
	-40 °F to 752 °F	0.2 °F	1 % + 18 <sup>2</sup>
AC μamps true-rms (45 Hz to 500 Hz)	600.0 μA	0.1 μA	1.5 % + 3 (2.5 % + 3 > 500 Hz)
DC μamps	600.0 μA	0.1 μA	1.0 % + 2
Hz (V or A input) <sup>3</sup>	99.99 Hz	0.01 Hz	0.1 % + 2
	999.9 Hz	0.1 Hz	
	9.999 kHz	0.001 kHz	
	50.00 kHz	0.01 kHz	

**Notes:**

- <sup>1</sup> All ac voltage ranges except Auto-V/LoZ are specified from 1 % to 100 % of range. Auto-V/LoZ is specified from 0.0 V. Because inputs below 1 % of range are not specified, it is normal for this and other true-rms meters to display non-zero readings when the test leads are disconnected from a circuit or are shorted together. For volts, crest factor of ≤ 3 at 4000 counts, decreasing linearly to 1.5 at full scale. AC volts is ac-coupled. Auto-V LoZ, and ac mV are dc-coupled.
- <sup>2</sup> Temperature uncertainty (accuracy) does not include the error of the thermocouple probe.
- <sup>3</sup> Frequency is ac coupled, 5 Hz to 50 kHz for ac voltage. Frequency is dc coupled, 45 Hz to 5 kHz for ac current.

## Ordering Information

Fluke Model	Part Number	UPC Codes	Product including packaging			
			Height	Width	Depth	Weight
Fluke-116/322	2823804	0 95969 39974 6	30.48 cm	22.86 cm	8.57 cm	0.95 kg
			12 in	9 in	3.375 in	2.09 lb

# 322 Specifications

~A	Range	0 – 400 V 400 – 600 V
	Accuracy	1.8 % ± 5 counts (50 Hz- 60 Hz) 3.0 % ± 5 counts (60 Hz - 400 Hz)
	AC response	Averaging
~V	Range	0 – 400 V 400 – 600 V
	Accuracy	1.2 % + 5 counts (50 Hz - 400 Hz)
	AC response	Averaging
~V	Range	0 – 400 V 400 – 600 V
	Accuracy	1 % ± 5 counts
Ω	Range	0 – 400.0 Ω
	Accuracy	1 % ± 5 counts
Continuity		≤ 30 Ω
Display hold		Yes
Size	Height	7.5"
	Width	2.5"
	Depth	1.4"
	Jaw opening	1" (26 mm)
Max. wire size		500 MCM
Weight		8 oz.

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

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