

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 $\pm$ ([% 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 ¹ 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 ¹ 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 μ s or longer.
Ohms	600.0 Ω	0.1 Ω	0.9 % + 2
	6.000 k Ω	0.001 k Ω	0.9 % + 1
	60.00 k Ω	0.01 k Ω	
	600.0 k Ω	0.1 k Ω	
	6.000 M Ω	0.001 M Ω	
	40.00 M Ω	0.01 M Ω	1.5 % + 2
Diode test	2.000 V	0.001 V	0.9 % + 2
Capacitance	1000 nF	1 nF	1.9 % + 2
	10.00 μ F	0.01 μ F	
	100.0 μ F	0.1 μ F	
	9999 μ F	1 μ F	
	100 μ F to 1000 μ F		1.9 % + 2
	> 1000 μ F		5 % + 20
Lo-Z capacitance	1 nF to 500 μ F		10 % + 2 typical
Temperature ² (Type-K thermocouple)	-40 °C to 400 °C	0.1 °C	1 % + 10 ²
	-40 °F to 752 °F	0.2 °F	1 % + 18 ²
AC pumps true-rms (45 Hz to 500 Hz)	600.0 μ A	0.1 μ A	1.5 % + 3 (2.5 % + 3 > 500 Hz)
DC pumps	600.0 μ A	0.1 μ A	1.0 % + 2
Hz (V or A input) ³	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:

¹ 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.

² Temperature uncertainty (accuracy) does not include the error of the thermocouple probe.

³ 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			
Fluke-116/322	2823804	0 95969 39974 6	Height	Width	Depth	Weight
			30.48 cm 12 in	22.86 cm 9 in	8.57 cm 3.375 in	0.95 kg 2.09 lb

322 Specifications

$\tilde{A}$	Range	0 – 400 V 400 – 600 V
	Accuracy	1.8 % $\pm$ 5 counts (50 Hz– 60 Hz) 3.0 % $\pm$ 5 counts (60 Hz – 400 Hz)
	AC response	Averaging
$\tilde{V}$	Range	0 – 400 V 400 – 600 V
	Accuracy	1.2 % + 5 counts (50 Hz – 400 Hz)
	AC response	Averaging
$\ddot{V}$	Range	0 – 400 V 400 – 600 V
	Accuracy	1 % $\pm$ 5 counts
Ω	Range	0 – 400.0 Ω
	Accuracy	1 % $\pm$ 5 counts
Continuity		$\leq 30 \Omega$
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.®

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 40) 2 675 200 or
Fax (31 40) 2 675 222
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>

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