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Fluke 116 HVAC Multimeter

with Temperature and Microamps

Technical Data



Actual size















Compact true-rms meter for HVAC troubleshooting

The Fluke 116 was specifically designed for the HVAC professional. It has everything needed in an HVAC meter including temperature and microamp measurements to quickly troubleshoot problems with HVAC equipment and flame sensors.

Features include:

- Built in thermometer for HVAC applications
- Microamps to test flame sensors
- LoZ: helps prevent false readings due to ghost voltage
- Large white LED backlight to work in poorly lit areas
- Resistance, continuity, frequency and capacitance
- Min/Max/Average with elapsed time to record signal fluctuations
- Compact ergonomic design for one-handed operation
- Compatible with optional magnetic hanger (ToolPak™)
- CAT III 600 V safety rated

General specifications

Accuracy is specified for 1 year after calibration, at operating temperatures of 18 °C to 28 °C, with relative humidity at 0 % to 95 %.

The accuracy specifications take the form of: \pm ([% of reading] + [counts])

Maximum voltage between any terminal and earth ground	600 V		
Surge protection	6 kV peak per IEC 61010-1 600 V CAT III, Pollution Degree 2		
Display	Digital: 6,000 counts, updates 4/sec		
Bar graph	33 segments, updates 32/sec		
Operating temperature	-10 °C to + 50 °C		
Storage temperature	-40 °C to + 60 °C		
Battery	9 volt Alkaline, NEDA 1604A/ IEC 6LR61		
Battery life	400 hours typical, without backlight		



Accuracy specifications

Measurement	Range	Resolution	Accuracy ± ([% of reading] + [counts])
DC millivolts	600.0 mV	0.1 mV	2.0 % + 3
DC volts	6.000 V	0.001 V	
	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 volts1 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	0.1Ω	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 ΜΩ	
	40.00 MΩ	0.01 ΜΩ	1.5 % + 2
Diode test	2.000 V	0.001 V	0.9 % + 2
Capacitance	1000 nF	1 nF	
	10.00 μF	0.01 μF	1.9 % + 2
	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 (Type-K thermocouple)	-40 °C to 400 °C	0.1 °C	1 % + 102
	-40 °F to 752 °F	0.2 °F	1 % + 182
AC µamps true-rms (45 Hz to 500 Hz)	600.0 µА	0.1 μΑ	1.5 % + 3 (2.5 % + 3 > 500 Hz)
DC µamps	600.0 µA	0.1 μΑ	1.0 % + 2
Hz (V or A input) ²	99.99 Hz	0.1 µA	1.0 /0 2
Hz (V or A input) ²	999.9 Hz	0.01 Hz	0.1 % + 2
	9.999 kHz	0.001 kHz	
	9.999 kHz	0.001 kHz	
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Notes:

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

Ordering information

Fluke-116

HVAC Multimeter with Temperature and Microamps

Included

TL75 Test Leads, 80BK Integrated Temperature Probe, holster, User's manual and 9V battery (installed).



Fluke. Keeping your world up and running.

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 $^{^1}$ All ac voltage ranges are specified from 1~% to 100~% of range. 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.

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.