

TECHNICAL DATA

# Fluke 101 Digital Multimeter/i400E Clamp Kit



## Key features

### Fluke 101 Basic Digital Multimeter

- Basic dc accuracy 0.5%
- CAT III 600 V safety rated
- Diode and continuity test with buzzer
- Small lightweight design for one-handed use
- Rugged, durable design
- Automatic shutdown
- Battery is easy to replace

### Fluke i400E AC Current Clamp

- Compatible with most Fluke multimeters or mV ac measurement tools with these features:
  - 400 mV ac range
  - 19.05 mm banana jack inputs
  - Input accuracy of 2 % or greater to take full advantage of the accuracy of the product
  - Input impedance of >1 M?
- 1 mV/A ac output guarantees easy current readings on you meter
- CAT III 600 V safety rating
- Specially designed to offer maximum utility in a very compact shape
- Take accurate current readings

## Product overview: Fluke 101 Digital Multimeter/i400E Clamp Kit

Designed for basic electrical tests, the Fluke 101 digital multimeter offers reliable measurements for residential/commercial electricians and heating and air conditioning technicians. This small, lightweight multimeter fits comfortably in your hand but is rugged enough to withstand daily use for years to come. When it comes to professional-grade affordable multimeters, the Fluke 101 digital multimeter is your best choice.

The Fluke i400E AC Current Clamp is an ideal tool to extend current measurement. It is designed to work with the new Fluke 101, 106 and 107 palm sized digital multimeters, as well as most Fluke multimeters or other voltage measurement tools that accepts 19.05 mm shrouded banana plugs and has mV ac measurement functionality.

## Specifications: Fluke 101 Digital Multimeter/i400E Clamp Kit

### Fluke 101 Basic Digital Multimeter

Electrical specifications		
V AC (40-500Hz)	Range	600.0 mV 6.000 V 60.00 V 600.0 V
	Resolution	0.1 mV 0.001 V 0.01 V 0.1 V
	Accuracy	3.0% $\pm 3$ digit 1.0% $\pm 3$ digit
V DC	Range	6.000 V 60.00 V 600.0 V
	Resolution	0.001 V 0.01 V 0.1 V
	Accuracy	0.5% $\pm 3$ digit

Resistance Ohms	Range	400.0 $\Omega$ 4.000 k $\Omega$ 40.00 k $\Omega$ 400.0 k $\Omega$ 4.000 M $\Omega$ 40.00 M $\Omega$
	Resolution	0.1 $\Omega$ 0.001 k $\Omega$ 0.01 k $\Omega$ 0.1 k $\Omega$ 0.001 M $\Omega$ 0.01 M $\Omega$
	Accuracy	0.5% $\pm$ 3 digit 0.5% $\pm$ 2 digit 0.5% $\pm$ 2 digit 0.5% $\pm$ 2 digit 0.5% $\pm$ 2 digit 1.5% $\pm$ 3 digit
Capacitance	Range	50.00 nF 500.0 nF 5.000 $\mu$ F 50.00 $\mu$ F 100.0 $\mu$ F
	Resolution	0.01 nF 0.1 nF 0.001 $\mu$ F 0.01 $\mu$ F 0.1 $\mu$ F
Frequency (10 Hz – 100 kHz)	Range	50.00 Hz 500.0 Hz 5.000 kHz 50.00 kHz 100.0 kHz
	Resolution	0.01 Hz 0.1 Hz 0.001 kHz 0.01 kHz 0.1 kHz
Duty cycle	Range	0.1% to 99.9%
	Resolution	0.1%
General specifications		
CAT rating	CAT III 600 V	
V AC range	600.0 V	
V DC range	600.0 V	
Ohms range	40.00 M $\Omega$	
Auto shutoff	Y	
Continuity	Y	
Capacitor	100.0 $\mu$ F	
Frequency	100.0 kHz	

Hold	No
Duty cycle	Yes
Size	130 x 65 x 27mm
Weight	160 g
Battery	Two AAA
Warranty	1 year
Environmental specifications	
Operating temperature	0 °C to +40 °C
Storage temperature	-30 °C to +60 °C
Operating humidity	Non condensing (<10 °C) ≤90% RH (at 10 °C to 30 °C) ≤75% RH (at 30 °C to 40 °C) (Without condensation)
Operating humidity, 40 MΩ	80% RH 10 °C to 30 °C, 70% RH 30 °C to 40 °C
Operating altitude	2,000 meters
Storage altitude	12,000 meters
IP rating	IP 40 per IEC 60529
Vibration requirements	MIL-PRF-28800F, Class 2
Drop test requirements	-10°C and 1 meter to surface, per IEC-61010-1, and Fluke SOP 39.1 for portable Hand-held equipment Shipping container drop per Fluke SOP 39.
EMI, RFI, EMC	Must meet all applicable requirements in IEC/EN 61326-1
Absorption/corrosion	Per Fluke SOP 39.1
Temperature coefficients	Add 0.1 x specified accuracy for each degree C above 28 °C or below 18 °C

### Fluke i400E AC Current Clamp

Electrical specifications	
AC current range	1 A to 400 A
Output signal 1	mV/A ac
Accuracy	2.0% ±5 digits (45 Hz to 65 Hz) 2.5% ±5 digits (65 Hz to 400 Hz)
Typical bandwidth	5 Hz to 20 kHz
Working voltage	600 V ac rms, in compliance with IEC 61010-1 and IEC 61010-2-030
Load impedance	1 A to 400 A
Maximum non-destructive current	600 A
Jaw inner diameter	30 mm
Maximum wire size	600 MCM
Standard plugs	19.04 mm dual banana plugs

Safety specifications	
Category rating	IEC 61010-1 and IEC 61010-2-030/IEC 61010-2-031 and IEC 61010-2-032: 600 V CAT III Pollution Degree 2
Electromagnetic environment	IEC 61326-1: Portable
General specifications	
Output cable length	1 m
Operating temperature	-10 °C to +50 °C
Storage temperature	-30 °C to +60 °C
Relative humidity	≤90% at 10 °C to 530 °C ≤75% at 30 °C to 540 °C ≤45% at 40 °C to 50 °C
IP rating	IEC 60529: IP30 when jaw closed
Temperature coefficients	Add 0.1 x specified accuracy for each °C above 28°C or below 18 °C.
Operating altitude	2,000 meters
Storage altitude	12,000 meters
Vibration requirements	MIL-PRF-28800F, Class 2
Drop test requirements	-10 °C, 1m, 6 sides, oak wood
Jaw impact test requirements	Follow EN/IEC 61010-2-032:2012
EMI, RFI, EMC	IEC/EN 61326-1
Dimensions (H x W x D)	146 x 62 x 34 mm
Weight	150 g

## Ordering information



### **Fluke 101 Kit**

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Includes:

- Fluke 101 Basic Digital Multimeter
  - TI75 Hard Point Test Lead Set
  - Two AAA Batteries (Installed)
  - Smart Strap
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- Fluke 101 Basic Digital Multimeter
  - Fluke i400E AC Current Clamp
  - TI75 Hard Point Test Lead Set
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