

TECHNICAL DATA

Fluke BK120 SmartTrace™ Breaker Finder and 107 Pocket Digital Multimeter















Key features

- Locates the correct breaker quickly and accurately
- Advanced NCV Mode to indicate proximity and detection of voltage on sockets/outlets, supply cords, or terminal strips
- GFCI outlets—with an integrated GFCI test, you can feel secure knowing that your GFCI equipped outlets are functioning properly
- Current and voltage measurements
- Measures resistance and continuity to check for broken wires

Product overview: Fluke BK120 SmartTrace™ Breaker Finder and 107 Pocket Digital Multimeter

Presenting the perfect pair of tools for both seasoned electrical professionals and DIY enthusiasts - The BK120 with 107 DMM

The Fluke BK120 with NCV mode

This versatile device simplifies electrical tasks, circuit tracing, and troubleshooting for electricians, homeowners, and maintenance professionals. The BK120 features a Breaker Finder and Transmitter, ensuring accurate circuit breaker identification, eliminating uncertainty, and ultimately saving valuable time. It's suitable for use in CAT III 150 V environments and boasts a comfortable and ergonomic design.

Key Features:

- Dual Sensitivity: Detects AC voltage in low and high voltage situations, enhancing safety
- Built-in GFCI Tester
- Bright flashlight
- Low battery indicator
- Auto sleep mode

Fluke 107 Pocket Digital Multimeter

The Fluke 107 is a compact, rugged digital multimeter that fits in your pocket. It's ideal for quick troubleshooting, offering reliable measurements for AC/DC voltage, current, resistance, capacitance, diode, frequency, and duty-cycle. With a CAT III 600V safety rating, it ensures your safety on the job.

Key Features:

- AC and DC voltage
- AC and DC current
- Resistance
- Capacitance
- Diode
- Frequency and duty-cycle



Specifications: Fluke BK120 SmartTrace™ Breaker Finder and 107 Pocket Digital Multimeter

Fluke BK120 SmartTrace™ Breaker Finder

	BK120 Transmier	BK120 Receiver
Safety rating	CAT III 150 V	CAT III 150 V
Rated operating voltage	110 V AC to 125 V AC at 6 mA	_
Rated frequency	50/60 Hz	_
GFCI test		_
Wiring check		_
Wiring indication	1 red, 2 green	_
Breaker finder indication	_	Visual and audio
NCV detection	_	90 V AC to 240 V AC, 50/60 Hz Dual sensitivity Visual and audio indications
Flashlight	_	
Auto power off	_	
Low baery indication	_	
Power supply	Line powered	2 AAA

Fluke 107 Pocket Digital Multimeter

Accuracy is available for one year after calibration, operating from 18 °C to 28 °C and relative humidity from 0% to 75%. The format of the accuracy specification is: \pm ([% of reading] + [least significant digit])

Precision specifications			
	Range	Resolution	Accuracy
AC voltage (40 Hz to 500 Hz) ¹	6.000 V 60.00 V 600.0 V	0.001 V 0.01 V 0.1 V	1.0 % + 3
DC voltage	6.000 V 60.00 V 600.0 V	0.001 V 0.01 V 0.1 V	0.5 % + 3
Exchange millivolts	600.0 mV	0.1 mV	3.0 % + 3
Diode test ²	2.000 V	0.001 V	10 %
Resistance (ohm)	400.0 Ω 4.000 kΩ 40.00 kΩ 400.0 kΩ 4.000 MΩ 40.00 MΩ	0.1 Ω 0.001 kΩ 0.01 kΩ 0.1 kΩ 0.001 MΩ 0.01 MΩ	0.5 % + 3 0.5 % + 2 0.5 % + 2 0.5 % + 2 0.5 % + 2 1.5% + 3

⁴ Fluke Corporation Fluke BK120 SmartTrace™ Breaker Finder and 107 Pocket Digital Multimeter



Capacitor ³	50.00 nF 500.0 nF 5.000 μF 50.00 μF 500.0 μF 1000 μF	0.01 nF 0.1 nF 0.001 μF 0.01 μF 0.1 μF 1 μF	2 % + 5 2 % + 5 5 % + 5 5 % + 5 5 % + 5 5 % + 5
Frequency ⁴ Hz (10 Hz – 100 kHz)	50.00 Hz 500.0 Hz 5.000 kHz 50.00 kHz 100.0 kHz	0.01 Hz 0.1 Hz 0.001 kHz 0.01 kHz 0.1 kHz	0.1 % + 3
Duty cycle⁴	1 % to 99 %	0.10 %	1 % typical case⁵
AC current (40 Hz - 200 Hz)	4.000 A 10.00 A	0.001 A 0.01 A	1.5 % + 3
DC	4.000 A 10.00 A	0.001 A 0.01 A	1.5 % + 3

- 1. All AC current, frequency, and duty cycle are specified from 1% to 100% of the range. Input values below 1% of range are not specified.
- 2. Typically, the open circuit test voltage is 2.0 V and the short circuit current is < 0.6 mA.
- 3. The parameters do not include errors due to test lead capacitance and capacitor substrate (up to 1.5 nF in the 50 nF range).
- 4. All AC current, frequency, and duty cycle are specified from 1% to 100% of the range. Input values below 1% of range are not specified.
- 5. Typically, the frequency is 50 Hz or 60 Hz and the duty cycle is 10% to 90%.

Features	Overload protection	Input impedance (nominal value)	Common mode rejection ratio	Normal mode rejection ratio
AC voltage	600 V ¹	>10 MΩ <100 pF ²	>60 dB at 50 Hz or 60 Hz at DC current	-
Exchange millivolts	600 mV	>1M, <100 pF	>80 dB at 50 Hz or 60 Hz	-
DC voltage	600 V ¹	>10 MΩ <100 pF	>100 dB at 50 Hz or 60 Hz at DC current	>60 dB at 50 Hz or 60 Hz

- 1. Up to 6 x 105 V Hz
- 2. For medium voltage (alteating current), the input impedance is approximately 1 M Ω .

General technical indicators		
The highest voltage applied to any terminal and ground	600 V	
Display (LCD)	6000 counts, updated three times per second	
Type of baery	Two AAA baeries (NEDA 24A, IEC LR03)	
Baery life	At least 200 hours	
Temperature		
Operating temperature	0 °C to 40 °C	
Storage temperature	-30 °C to 60 °C	
Relative humidity		
Working humidity	No condensation below 10 °C © 90 % at 10 °C to 30 °C; © 75 % at 30 °C to 40 °C	

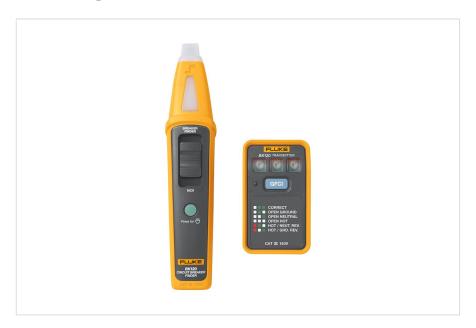


Working humidity, 40 M Ω range	□ 80 % at 10 °C to 30 °C; □ 70 % at 30 °C to 40 °C
Altitude	
Working elevation	2000 m
Storage altitude	12,000 m
Temperature coefficient	0.1 X (specified accuracy) / °C (<18 °C or >28 °C)
Current input fuse protection	11A, 1000V fast-melting type, must use Fluke designated parts
Volume (height x width x length)	142 mm x 69 mm x 28 mm
Weight	200 g
Protection level	IEC 60529: IP 40
Safety	IEC 61010-1: 600 V CAT III, pollution degree 2
Electromagnetic environment	IEC 61326-1: Portable
Electromagnetic compatibility	Applicable only in Korea. Class A equipment (industrial broadcasting and communication equipment) ¹

¹ This product meets the requirements of industrial (Class A) electromagnetic wave equipment, which should be noted by the seller or user. The device is suitable for use in a work environment, not a home environment.



Ordering information



Fluke BK120/107 Kit

Fluke BK120 SmartTrace™ Breaker Finder and 107 Pocket Digital Multimeter

Includes:

- BK120
 - o Breaker Finder Receiver
 - o Transmitter
 - o Batteries
 - o Quick Reference guide
- 107 Pocket Digital Multimeter
 - Fluke 107 palm-sized digital multimeter
 - o (1 pair) TL75 Hard Point™ Test Leads
 - o (2) AAA batteries (installed)
 - ∘ SmartStrap™ intelligent magnetic, multi-purpose lanyard
 - 1-year warranty

Optional accessories

Description

Fluke C115 Soft Carrying Case Includes two padded pockets for protection of two test tools, such as a digital multimeter and 60 Series IR thermometer and a pouch for test leads and other accessories.



$\textbf{Fluke}. \ \textit{Keeping your world up and running.} \\ \textbf{@}$

Fluke Corporation

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