

Fluke 867B Graphical™ Multimeter

[Product Home](#) | [Features](#) | [Specifications](#) |
[Models, Options & Accessories](#)



Fluke 867B Graphical MultiMeter

The Fluke 867B is the ultimate handheld tool for any application that demands real precision. Its 0.025% basic accuracy makes the 867B GMM tool an excellent choice for critical measurements. The 867B delivers the ultimate combination of functions and accuracy available in one handheld tool.

[Register your Fluke Multimeter here](#)

New

Download [application notes](#) for more information on multimeter procedures. **New**

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Fluke 867B Graphical Multimeter Features

[Product Home](#) | [Features](#) | [Specifications](#) | [Models, Options & Accessories](#)



- [Features at a Glance:](#)
- [The Fluke 867B GMM Gives You the Big Picture](#)
- [Six test tools in one](#)
- [Display](#)
- [Sample Measurements](#)

Features at a Glance:

- Waveform Display to 1 MHz
- Safety-rated to 1000V
- Digital Display/Counts
- Selectable True-rms or Average Sensing
- Continuity/Conductance/Capacitance
- Duty Cycle/Pulse Width/Period/Frequency
- Min/Max/Average with Time Stamp
- Relative Mode
- Touch Hold® and Peak Hold
- dB, AutoDiode™
- Auto/Manual Ranging, Smoothing™
- RS232 Interface (software and cable optional)
- Logic Activity
- Component Test
- LCD backlight

- Waveform memory
- Built-in NiCad charging
- Battery Eliminator

The Fluke 867B GMM Gives You the Big Picture

- 0.025% basic dc accuracy to discriminate low-level signal variations in transducers and analog electronics.
- Direct current from 0 to 10 Amps, with resolution down to 10nA
- True-rms ac with bandwidth to 300 kHz
- Capacitance from 40pF to 10,000 μ F
- Measure dB gain or loss in amplifiers, filters, or attenuators
- Tested for IEC 1010-1, CAT III 1000 Volts for industrial distribution systems
- And more: AutoDiode™, TouchHold®, Smoothing™, Relative, Peak Hold, Auto/Manual Ranging
- RS-232 Interface for communication to computers and printers. Import waveforms into reports (software and cable optional).

Six test tools in one

Here's one test tool that's six test tools in one:

Fluke's most accurate Multimeter, from the company that makes the best multimeters in the world. With Fluke's guaranteed ruggedness and reliability.

Easy-to-use Waveform Display from dc to 1 MHz. Troubleshooting no longer means groping in the dark. Waveforms are like x-ray pictures of your electrical system. With automatic set-up you get the best view without fiddling with timebase, trigger levels, position, etc.

A Recorder that plots high resolution meter readings in intervals from 1 second to 15 minutes. Record your data in one of three modes-sample, high/low or average. With the RS-232 interface, you can connect to your computer using FlukeView software and collect as much data as your hard disk can accommodate (software and cable optional).

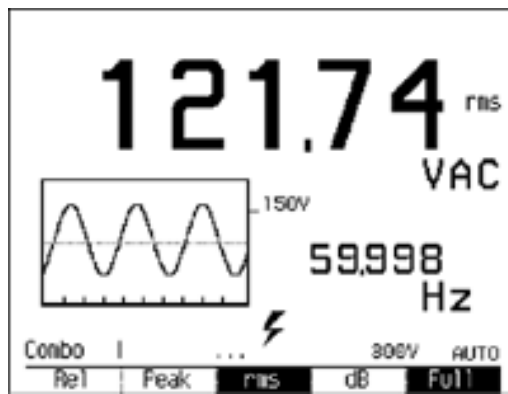
Component Test for checking voltage-current signatures on resistors, capacitors, semiconductors and more.

Logic Test offers a simple way to indicate logic transitions to 10 MHz, showing if a circuit is active, stuck high, or stuck low.

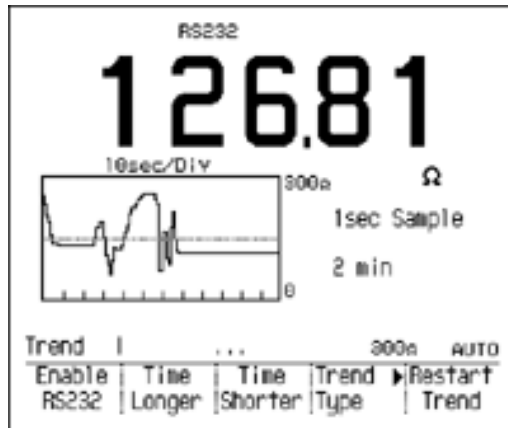
A Frequency Counter that measures up to 10 MHz.

Display

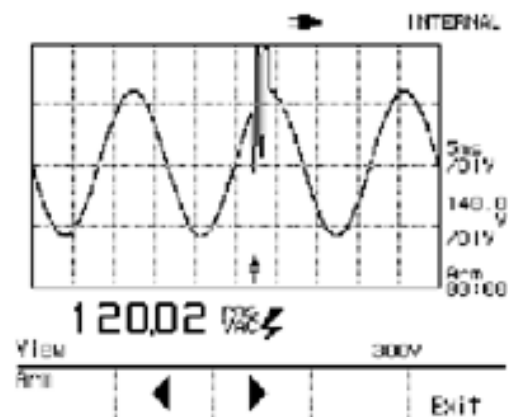
Combo mode shows combined meter and waveform displays for quick check of distorted waveforms.



Record events and trends. Helpful for troubleshooting intermittent problems or profiling loads.



Glitch Capture displays voltage impulses (spikes) which can effect data communications and electronic equipment.



Sample Measurements

Take a look at several [sample measurements](#).

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Fluke 867B Graphical Multimeter Specifications

[Product Home](#) | [Features](#) | [Specifications](#) | [Models, Options & Accessories](#)

- [Specifications](#)
- [General Specifications](#)

Specifications

VDC	Measurement Range: 300.00 mV to 1000.0V Basic Accuracy: $\pm 0.025\%$
VAC RMS	Measurement Range: 300.00 mV to 1000.0V Basic Accuracy: $\pm 0.5\%$ Bandwidth: 20 Hz to 300 Khz AVG Bandwidth: 50 Hz to 30 Khz
ADC	Measurement Range: 300.00 μ A to 10.000A Basic Accuracy: $\pm 0.05\%$ to 0.2% N/A
AAC	Measurement Range: 300.00 μ A to 10.000A Basic Accuracy: $\pm 0.75\%$ N/A
Resistance	Measurement Range: 300.00 Ohm to 30.000 MOhm Basic Accuracy: $\pm 0.07\%$
Frequency	Measurement Range: 2 Hz to 2 MHz Basic Accuracy: $\pm 0.05\%$
Capacitance	Measurement Range: 10 nF to 10,000 μ F Basic Accuracy: $\pm 1.90\%$
Waveform Display	1 MHz
Peak Hold	Captures positive and negative peaks $\geq 10 \mu$ s
Glitch Capture	Captures glitches $\geq 1 \mu$ s
dB/dBm	Measurement Range: 2, 4, 8, 16, 50, 75, 93, 110, 125, 135, 150, 300, 600, 900, 1000, 1200 Ohm references Basic Accuracy: ± 0.05 dB

General Specifications

Safety Rating	IEC 1010-1 Category III for 1000V; UL 3111, CSA-C22.2 No. 1010-1-92, TUV, ENG1010-1
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Multimeter Specifications

Display	LCD, dot matrix, 240x200 pixels
Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to 60°C (batteries removed)
Relative Humidity	0% to 90% non-condensing
Battery Life	NiCad battery pack: 8 hrs (supplied with 867B) Alkaline (6AA): 6 hrs
Size	2.75" H x 5.4" W x 9.7" L 69.9 mm H x 137.2 mm W x 246.4 mm L
Weight	With battery pack: 3.01 lb (1.35 kg) With AA batteries: 2.64 lb (1.19 kg)

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Fluke 867B Graphical Multimeter Models, Options & Accessories

[Product Home](#) | [Features](#) | [Specifications](#) | Models, Options & Accessories

Model Name	Product Description
Fluke 867B	Graphical Multimeter

Available Accessories and Options

Model Name	Accessory or Option Description
80i-400	AC Current Clamp
80i-600A	AC Current Clamp
80PK-2A	K-Type Immersion Probe (Requires 80TK Thermocouple Module)
80PK-3A	K-Type Flat Surface Probe (Requires 80TK Thermocouple Module)
80PK-4A	K-Type Air Probe (Requires 80TK Thermocouple Module)
80PK-5A	Piercing Probe (Requires 80TK Thermocouple Module)
80PK-6A	K-type Exposed Junction Probe (Requires 80TK Thermocouple Module)
80PK-7	K-Type Industrial / Heavy Duty Surface Probe (Requires 80TK Thermocouple Module)
80PK-8	K-Type Probe Pipe Clamp Temperature Probe 80PK-8 (Requires 80TK Thermocouple Module)
80PK-IR	Infrared Temperature Probe
80T-150U	Universal Temperature Probe
80T-IR	Non-Contact Infrared Temperature Probe

80TK	Thermocouple Module
85RF	High Frequency Probe, 500 MHz
AC70A	Alligator Clips
BC7217	Battery Charger
BE860 120	Battery Eliminator (120 VAC)
C789	Toolcase
FOM	Fiber Optic Meter includes an optical power meter, two multimode ST-ST patch cables, one multimode ST-ST adapter, instruction sheet and instrument case.
i-1010	Clamp-on AC/DC Current Probe
i-410	Clamp-on AC/DC Current Probe
i200	AC Current Clamp
PAC91	Printer Adapter Cable
PM 9080/001	Optically Isolated RS-232 Adapter/Cable
PV350	Pressure/Vacuum Module (0 to 350 PSI)
SC860	Software and Optically-Isolated Cable
SW860	FlukeView 860 software only
TL20	63" Test Lead Set
TL22	63" Right Angle Silicone Test Lead Set
TL23F	Electrical Test Lead Set
TL23R	Electrical Test Lead Set
TL24	63" Right Angle/Straight Silicone Test Leads
TL26A	60" 5-Way Test Lead Set
TL28A	63" Alligator Clip Test Lead Set
TL74	4 mm Diameter Test Leads
TL75	48" Hardpoint Test Lead Set
Y8140A	48" Slim Flex Test Lead Set

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