

Graphic Multimeters

Graphical Multimeter
Fluke 867B



- The most accurate Fluke hand held DMM
- High accuracy - 0.025% basic dc accuracy
- 32,000 count resolution
- Fully automatic waveform display
- Easy to use - familiar multimeter dial selection of functions
- New bright display with adjustable back light, increased dc accuracy (867B)
- Trendgraph electronic chart recorder
- 10 to 1MHz digital waveform display
- Optional SC860 PC Software Package and optical interface
- Designed to meet IEC 1010-1 Category III for 1000V measurements
- Incircuit component testing



The comprehensive set of measurement ranges of these instruments makes them ideal for service or repair of industrial controls, production equipment, transducers or consumer electronics. Other applications include calibration of industrial equipment and quality control or production test on components. Many measurements are available with extended ranges or accuracies unavailable on other multimeters. The 30mA current range is accurate to 0.05% - ideal for working on 4 - 20mA instrumentation current loops. To determine the dB gain or loss of amplifiers, filters, attenuators or telecommunications systems use the dB function with selectable reference impedances (a choice of 16 available). For diode test the AutoDiode™ feature electronically reverses the test lead polarity. It also shows the diode polarity if the diode is functional.

A built in RS232 interface gives easy access to a serial printer or PC. Using the Fluke View™ 860 PC software measurements can be stored and displayed on a PC.

All instruments are supplied with a user manual. See below under Ordering Information for additional accessories supplied with the instruments.

Ranges

dc voltage	0 to 1000V
ac voltage	0 to 1000V (20Hz to 300kHz)
dc/ac current 863:	30mA to 10A
867B:	30mA to 10A
Resistance	0Ω to 30MΩ
Capacitance	10nF to 10000uF
Frequency	2Hz to 2MHz
Decibels	Selectable references from 2,4,8,16,50,75,93,110,125,135,150,300,600,900,1000 and 1200Ω

Basic Accuracy (±figure in %)	867B	Basic Accuracy (±figure in %)	867B
dc voltage	0.025%	ac current	0.75%
ac voltage	0.5%	Resistance	0.07%
dc current 300µA to 10A	0.05% to 2%	Capacitance	1.9%
30mA to 10A	0.05%±15	Frequency	0.05%

General

Resistance/Conductance/Continuity measurement	High impedance input
Automatic polarity AutoDiode™ test	High voltage indicator
Duty Cycle/Pulse Width/Period measurement	100V input protection (8kV spikes) on all functions
Min/Max with time stamp	NeedleGraph™ simulated analogue display
Peak Hold	TrendGraph™ mode shows how data changes over time
Auto of manual ranging	Automatically logs a reading for upto 30 hours
Smoothing™ function	Switchable true rms/average responding ac measurements
dB with selectable references	

Selection Guide

Basic dc accuracy	±0.025%
30A direct current accuracy	±0.5%±15 counts
Current ranges	6
Frequency counter range	<10MHz
Meter ac bandwidth	300kHz
waveform display bandwidth	1MHz
Logic activity	●
Component test	●
LCD backlight	●
Internal battery charging	●
Waveform memory	●
TL70A test leads	●
TL20 test leads	optional
Alkaline batteries supplied	-
Battery eliminator supplied	●
NiCad batteries supplied	standard
RS232 interface adaptor and Fluke View™	
Software supplied	optional

Ordering Information

1. The Fluke 867B (order code 768-959) is supplied with NiCad batteries and battery eliminator. The Fluke 867B will recharge the NiCad batteries internally.
2. The Fluke 867B are supplied with TL70A test leads
3. Use only correct replacement fuses

Prices where indicated by a are subject to change. Please call your local sales office or visit www.farnellinone.com for the latest prices.

222401

Description	Mfrs. List No.	Order Code	1+	+	+
Multimeter	867B	768-959			
Soft carry case	C789	546-665			
Interface cable	PM9080	252-384			
Fluke View software	SW860D	561-733			
NiCad battery pack	BP7217	546-689			
Spare fuse 440mA, 1100V	943121	546-719			
Spare fuse, 11A, 1100V	803293	546-720			
			Price Each		
Standard Calibration Charge	S				
UKAS Calibration Charge	N				

Benchtop Digital Multimeters

Autorangeing Bench DMM

Fluke 45 Series



H=93, W=216, D=286



A bench/portable 5 digit multimeter with dual displays housed in an attractively designed case with integral carrying handle. Two models are available, mains or mains/ rechargeable battery operation.

Dual Displays, are useful in applications requiring two different measurements of the same signal, for example displaying the ac ripple on a dc source simultaneously or monitoring the voltage drop across a load while measuring the current through the load.

Compare Mode, for fast 'in-tolerance' testing, upper and lower limits are entered through the front panel. Displays show hi/lo or pass and the measured value.

dB Measurement, decibels are displayed, by using the front panel to select any of 21 references from 2Ω to 8000Ω with audio power displayed in watts for 2Ω, 4Ω, 8Ω and 16Ω impedances.

RS232 Interface allows reading to be printed on a standard RS232 printer, filed, manipulated or transmitted by modem, ie remote testing.

Supplied with operators manual, mains lead and test leads. (rechargeable batteries are fitted to the battery/mains version). A soft carrying case is available as a separate item.

- Twin 5 digit multifunction Vacuum Fluorescent displays
- Touch hold, relative and min/max functions
- Compare (hi/lo/pass) batch test function
- Frequency measurement to 1MHz
- 0.02% Basic dc accuracy
- True rms voltage including ac + dc
- RS232 interface
- dB measurement

Ranges

dc/ac voltage	100mV, 300mV, 1000mV, 3V, 10V, 30V, 100V, 300V, 1000V (750V on ac range)
dc/ac current	10mA, 30mA, 100mA, 10A
Resistance	100R, 300R, 1kR, 3kR, 10kR, 30kR, 100kR, 300kR, 1MR, 3MR, 30MR, 100MR, 300MR
Frequency	1000Hz, 10kHz, 100kHz, 1MHz

General

Input impedance	dc/ac voltage	10MΩ/<100pF
Input protection	dc/ac current	20.5mm x 5mm 500mA/250V and 1½" x ¾" 15A 250V fast blow fuse
Battery (battery version only)		Rechargeable (8 hours life typical from full charge) recharge time 16 hours
Power requirements		90 to 264 Vac (no switching required)

Mfrs. List No. 45 = 107-374, 45-01 = 107-375

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222329

Mfrs. List No.	Order Code	1+	+	+
Type 45 mains only	107-374			
Type 45-01 battery/mains	107-375			
Standard Calibration Charge	S			
UKAS Calibration Charge	N			

Current Clamps

Mini True RMS AC/DC Clamp Meter

72-6185



Prices are in Thai Baht and exclude 7% VAT. Due to the volatile nature of certain products, prices are subject to change without notice.