

## TECHNICAL DATA

# Fluke 8808A Digital Multimeter



## Key features

### Versatile multimeter for manufacturing, development and service applications

- 5.5 digit resolution
- Basic V DC accuracy of 0.015%
- Dual display
- Dedicated DC leakage current measurement
- 2 x 4 ohms 4-wire measurement technique
- Six dedicated buttons for fast access to instrument setups
- Hi/Lo limit compare for Pass/Fail testing
- Three-year warranty

The Fluke 8808A multimeter has a broad range of functions, measuring volts, ohms and amps with a basic V DC accuracy of 0.015%. It is remarkably easy to use, even by unskilled operators, because it makes the measurements you perform most often extremely easy and fast to do.

Six setup buttons on the 8808A front panel operate like a car radio's station presets. Simply set up the meter for a common measurement, then press shift followed by a setup button (S1 to S6) to save the setup. Now each time you perform that measurement, you simply press the appropriate setup key. It's that easy!

The setup buttons eliminate the need to follow complex work instruction sheets. Operators no longer need to press multiple buttons to set up a measurement function and range, test limits, or enter other parameters to make a measurement.

## Product overview: Fluke 8808A Digital Multimeter

### Eliminate production mistakes

The Fluke 8808A 5.5 digit multimeter dependably performs the most common measurements required by today's applications. Whether you are performing functional tests or making critical measurements on test points, using the limit compare mode with pass/fail indicators eliminates production mistakes, especially those where results are "on the edge." The 8808A display has built-in enunciators that clearly show the operator whether a test passes or fails. The pass/fail indicators take the guesswork out of testing: the result is either within limits or it's out!

### Improve quality and efficiency in manufacturing test, R&D or service applications

Manufacturing test, R&D, development and service applications demand performance and flexibility from a bench meter. This Fluke 8808A makes measurements that stand up to any scrutiny. It delivers a wide variety of measurement functions, including volts, ohms, and amps, plus frequency—all at superior accuracy and resolution.

### Measure two parameters at once

The 8808A features a unique dual display that allows you to measure two different parameters of the same signal from one test connection. Looking at dual interrelated parameters like voltage and current simultaneously can reveal conditions that might go unnoticed otherwise, greatly simplifying test and troubleshooting.

### Measure sensitive leakage current

Typical multimeters use a shunt method to measure current, creating a measurement burden voltage that increases the error in low current measurements. This makes it difficult, if not impossible, to perform tasks such as determining the true leakage current on a battery-powered device while it is powered down, or measuring small currents in sensitive circuits. The Fluke 8808A is the only multimeter in its class to use a low-impedance operational amplifier and current-to-voltage conversion technique to eliminate the burden voltage and measure sensitive low currents. In this special mode, the 8808A can accurately measure small currents with a resolution of up to 100 nA.

### Perform 4-wire measurements with only two leads

Patented split terminal jacks for the 2x4-wire ohms function allow you to perform 4-wire measurements using only two leads instead of four. Today's surface mount components make it difficult to make connections. The task becomes even more difficult when you need to use a 4-wire technique for accurate low ohms measurements. The Fluke test lead accessory combines the four wires into two test lead pairs, making it easy for you to establish connections. You get excellent resolution and accuracy, plus the convenience and ease of using a single pair of leads.

### FlukeView® Forms Basic

FlukeView Forms increases the power of your Fluke tool by enabling you to document, store and analyze individual readings or series of measurements, then convert them into professional looking documents. Transfer data points from your meter to your PC and use the standard, non-customizable forms to display your readings in table or graphical form. For a larger array of forms or to use FlukeView® Forms Designer customize your forms, upgrade to FlukeView® Forms 3.0 with FVF-UG.

### Fluke quality is built in

Fluke is known around the world for its rugged, reliable, and accurate multimeters. With our experience, design standards and quality assurance processes, we have designed a multimeter that will stand up to any scrutiny of its specifications. In fact, a Fluke meter typically performs better than specified. All of our efforts are designed to ensure that you can make an accurate measurement—repeatedly, and with confidence.

## Specifications: Fluke 8808A Digital Multimeter

Technical Specifications		
Display	VFD multi segment display, dual readings	
Resolution	5.5 digits	
V DC	Range	200 mV to 1000 V
	Max. resolution	1 uV
	Accuracy	0.015 + 0.003
V AC	Range	200 mV to 750 V
	Max. resolution	1 uV
	Accuracy	0.2 + 0.05
	Frequency	20 Hz to 100 KHz
Resistance	2 x 4 Wire	Yes
	Range	200 u03a9 to 100 Mu03a9
	Max. resolution	1 mu03a9
	Accuracy	0.02 + 0.003
A DC	Range	200 u00b5A to 10 A
	Max. resolution	1 nA
	Accuracy	0.02 + 0.005
A AC	Range	20 mA to 10 A
	Max. resolution	100 uA
	Accuracy	0.3 + 0.06
	Frequency	20 Hz to 2 kHz
Frequency	Range	20 Hz to 1 MHz
	Max. resolution	0.1 mHz
	Accuracy	0.01%
Math functions	dB/dBm	Yes
Advanced functions	Limit compare test, with pass and fail indicators	
Interfaces	RS-232, USB with optional adapter	
Programming languages/modes	Simplified ASCII, Fluke 45 remote command emulation	
General Specifications		
Weight	2.1 kg (4.6 lbs)	
Size (H x W x D)	88 x 217 x 297 mm (3.46 x 8.56 x 11.7 in)	
Safety	Designed to comply with EN 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, AN/CSA C22.2 No. 61010.1:2004	



Calibration documentation	Statement of calibration practices included; calibration report optional
Warranty	Three years

## Ordering information



### Fluke 8808A

8808A 120V Digital Multimeter

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Includes:

- 5.5 digit multimeter, .01 %
  - Meter
  - TL71 test leads
  - line cord
  - USB to RS232 interface adapter cable
  - FlukeView Forms Basic Software
  - statement of cal practices
  - WEEE information sheet
  - Warranty statement
  - Getting Started guide (English, French, German, Spanish, Italian, Simplified Chinese, Japanese)
  - CD Rom with user manual (English)
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