

V

NOTE BOO IEAS

14

FLUKE 8846A & VE DICHT PRECISION MLETIMETER

- 1.00060

ANLZ MATH BI Max 1.000102V= # 65 /100

Min .999946V=

#SAMPLES

# Fluke 8845A/8846A Digital Multimeters

Precision and versatility for bench or systems applications

SENSE 4WD

1980 VII SAFLAA

FEIDHT

LO

FLUKE 204 20 MS & AREITRARY H

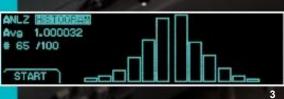
INPUT



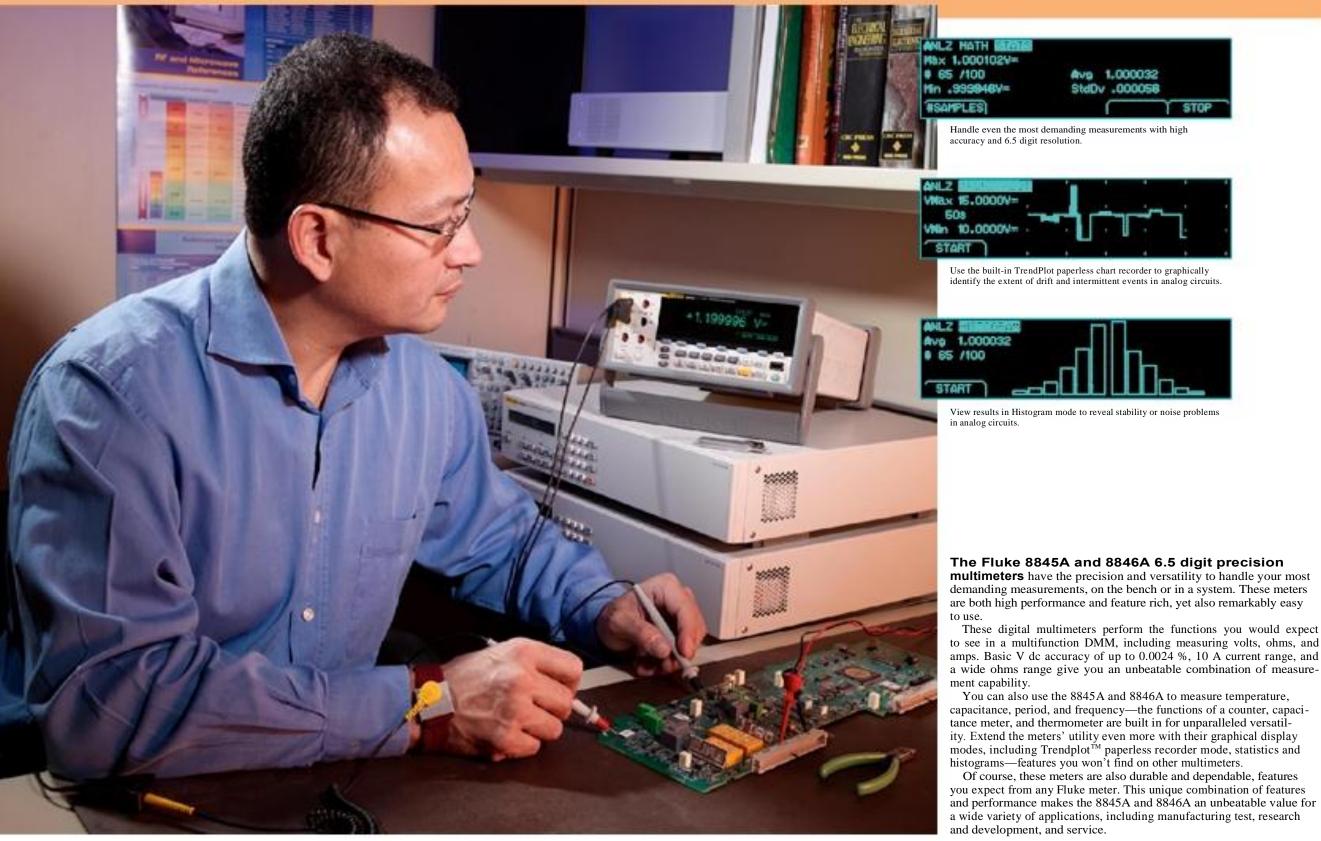
Ave 1.000032

StdDv .000056

STOP



# **Exceed your expectations for performance and value**



With 14 measurement functions, math and analysis modes, the 8845A/8846A will meet the needs of any test, research and development, or service application.

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## **Features** at a glance

- 6.5 digit resolution
- Basic V dc accuracy of up to 0.0024 %
- Dual display
- 100 µA to 10 A current range, with up to 100 pA resolution
- Wide ohms ranges from 10  $\Omega$  to 1 G $\Omega$ with up to 10  $\mu\Omega$ resolution
- 2 x 4 ohms 4-wire measurement technique
- Measures frequency, capacitance, period, temperature (8846A)
- USB memory drive port (8846A)
- Fluke 45 and Agilent 34401A emulation
- Graphical display
- Trendplot<sup>TM</sup> paperless recorder mode,
- statistics, histogram
- CAT I 1000 V. CAT II 600 V

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# A perfect fit for many applications, in a system or on the bench.



standards.

### Versatile solutions for advanced test applications

measurements. Analyzing a measured values distribution over time can highlight potential reoccurring out-of-tolerance problems. The ability to make dual simultaneous measurements and display them in graphic or numeric format adds new tools to the test system and design engineer's toolbox of tricks for solving or validating analog circuits.

Research and development applications demand measurement performance and flexibility. The 8845A and 8846A meet these needs, with excellent performance in all measurement functions. It's easy to use and adapts easily to almost any benchtop application.



#### Easy to integrate into your automated test system

The 8845A and 8846A meters can be incorporated easily into your automated test system. These meters emulate several legacy bench DMMs, allowing them to be substituted easily into existing systems. SCPI compatibility and drivers allow them to work with most available application and development languages.

Front and rear inputs let you easily make connections where it's most convenient, whether the meter is rack-mounted or used on a bench. Multiple interfaces provide compatibility to existing and new

Reading rates are greater than 1000 readings per second giving you the throughput you need for systems applications.

These meters let you take test and troubleshooting to a new level. Set up the 8845A or 8846A to take measurements over a period

of time and display them graphically on the DMM's screen, for real time trending analysis. Graphical trending analysis can highlight drift and signal fluctuations, as well as intermittent errors that can't be seen on a numerical display.

Using the graphical display, the 8845A and 8846A can simultaneously display a histogram and multiple statistical values such as mean, min, max and standard deviation calculated using real time

Save measurement results to USB memory and transfer the data to a PC for detailed analysis. Or use the Ethernet connection to transport data over a network.

Extended current and ohms ranges and additional capabilities such as temperature and capacitance increase the variety of measurements you can make and tests you can perform with a single instrument.

#### Perfect for benchtop research and development



#### **Dual display and versatile** graphical capabilities

The 8845A/8846A feature a unique dual display that allows you to measure two different parameters of the same signal from one test connection. To reveal signal quality issues like drift, intermittants and stability, view data as a real time trend plot or histogram, with the unique analyze mode. You won't find graphical display capabilities like these on any other instrument in this class.



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

Patented split terminal jacks for the 2 x 4 ohms function allow you to perform 4-wire measurements using only two leads instead of four. A special test lead accessory is available to enable you to establish the connection. You get excellent resolution and accuracy plus the convenience and ease of using a single pair of leads.



#### Multiple connectors give you maximum flexibility

Choose from several interfaces to connect the 8845A/8846A to a personal computer: serial, IEEE-488, and Ethernet come standard on both models. A USB device port is included on the 8846A meter for convenient data transfer to and from a PC via a portable USB storage device.



#### FlukeView<sup>®</sup> Software and drivers add PC power and application compatibility.

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. Log live readings while connected to a PC or store, display and share readings in interactive forms, graphs and tables. Create customized, professional looking documents that can be printed or emailed. FlukeView Forms software includes easy-to-use standard forms.

Instrument programming drivers, DLL files and support information are included to get your test system up and running as quickly as possible.

### FlukeView<sup>®</sup> Forms Basic

The Fluke 8845A/8846A ship with a free copy of FlukeView Basic. Transfer data points from your meter to your PC and use the two standard, noncustomizable forms to display your readings in table or graphical form. For a larger array of forms or to use FlukeView® Forms Designer to customize your forms, upgrade to FlukeView<sup>®</sup> Forms version 3.0 with FVF-UG.

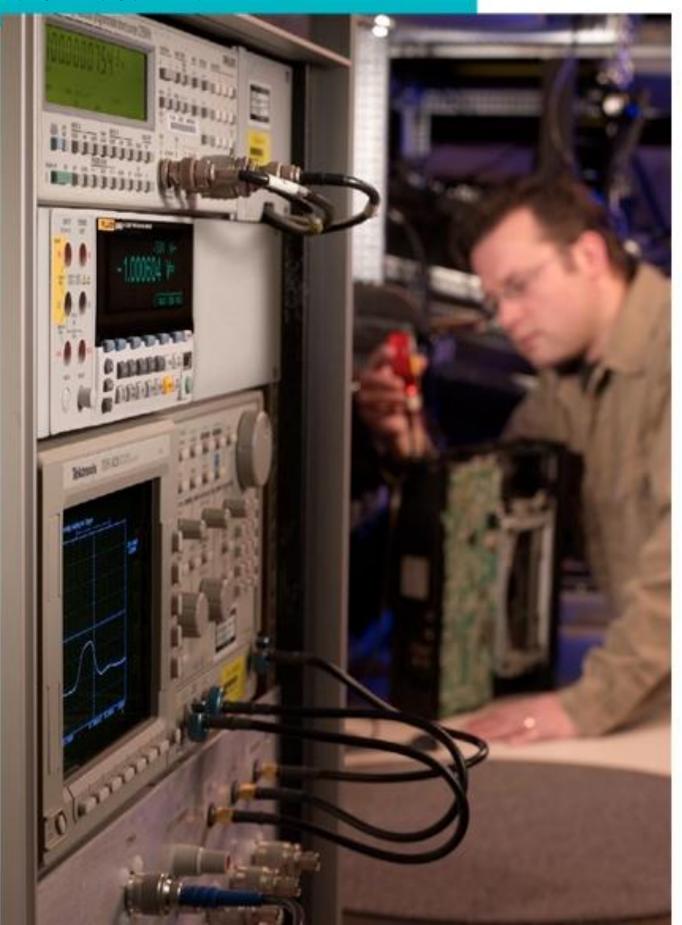
### Fluke 45 and Agilent 34401A emulation

The 8845A/8846A emulate operation and programming commands of the Fluke 45 and Agilent 34401. Emulation shortens the learning curve and makes it easy to fit the 8845A or 8846A into existing test systems.

#### Fluke support completes the equation of value

Like all Fluke products, the 8845A/8846A are built to provide years of dependable service. However, if you do need calibration or repairs, you can turn to our global network of direct and representative service centers strategically located around the world. Each offers a full range of support services.

With 6.5 digit performance, legacy DMM emulation and the latest interfaces, the 8845A/8846A will easily integrate into any legacy or new test system.





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Summary Specifications	8845A	8846A	
splay	VFD D	D Matrix	
solution	6.5 I	6.5 Digits	
easurement Function	Accuracy, $\pm$ (% of reading + % of range),		
	one year afte	er calibration	
DC Ranges	100	to 1000 V	
Max. Resolution		0 nV	
Accuracy	0.0035 + 0.0005	0.0024 + 0.0005	
AC	100		
Ranges Max. Resolution	100 mV to 750 V	100 mV to 1000 V nV	
Accuracy	0.06 + 0.03	0.06 + 0.03	
Frequency	3 Hz to	300 KHz	
esistance			
2x4 Wire Ranges	Yes 100 Ω to 100 MΩ	Yes 10 Ω to 1 GΩ	
Max. Resolution	100 Ω2 10 100 ΜΩ2	10 Ω 10 Ω	
Accuracy	0.010 + 0.001	0.010 + 0.001	
DC			
Ranges	100 µA to 10 A	100 µA to 10 A	
Max. Resolution Accuracy	100 pA 0.050 + 0.005	100 pA 0.050 + 0.005	
AC	0.050 + 0.005	0.000 + 0.000	
Ranges	10 mA to 10 A	100 µA to 10 A	
Max. Resolution	10 μA	100 pA	
Accuracy Frequency	0.10 + 0.04 3 Hz to 10 kHz	0.10 + 0.04 3 Hz to 10 kHz	
req/Period	5 112 10 10 KHZ	5 112 to 10 KHZ	
Ranges	3 Hz to 300 kHz	3 Hz to 1 MHz	
Max. Resolution	1 µHz	1 µHz	
Accuracy ontinuity/ Diode Test	0.01 % Yes	0.01 % Yes	
Continuity/ Diode Test	res	Yes	
Ranges	_	1 nF to 0.1 F	
Max. Resolution	_	1 pf	
Accuracy		1 %	
emperature			
Type Range		Platinum RTD -200 °C to +600 °C	
Max. Resolution		-200 °C 18 +800 °C 0.01 °	
Accuracy	_	0.06 °	
<b>1ath Functions</b>			
	Zero Min/May/Av	erage, Std Dev; mx+b	
lB/dBm	Yes	Yes	
lvanced Functions		 	
tatistics/Histogram rendplot		res res	
Limit Test		/es	
Input Output			
JSB Memory Deal Time Cleak	_	USB memory drive port	
eal Time Clock nterfaces		B (with optional adaptor)	
rogramming Languages/	SCPI (IEEE-488.2), Agilent 34401		
Modes			
General			
eight	3.6 kg	(8.0 lbs)	
ize (HxWxD)	88 mm x 217 mm x 297 mm		
Safety	Designed to comply wit		
	ANSI/ISA-S82.01-1994, CA		
	CAT I 1000 V, C.		
Warranty	One ye	ar	



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