FLUKE®

FLUKE 8846A 6-1/2 DIGIT PRECISION MULTIMETER

-16.04 mV~

-1.000604 V⎓

RATIO | 2ND MEAS

INPUT
V Ω ⤙ ⫢
2W/4W
HI

SENSE
4WΩ
HI

1000V⎓ CAT I
600V⎓ CAT II

1000V⎓
MAX

LO
LO
200 mA⎓
MAX
10 A⎓
MAX
10 A
mA

REAR
FRONT

BACK | F1 | DCV | ACV | DCI | ACI | Ω | TRIG | QUICK SETUP
RANGE | FREQ PERIOD | TEMP | ZERO | ANALYZE | MEAS SETUP

FLUKE 284 40 MS/s ARBITRARY WAVEFORM GENERATOR

FCN sine
FRQ 10.00000kHz
UPP [cont]
AMP +2.00 mVdc 1e110]
OFS +0.00 mVdc

SETUP
CH1
CH2
CH3
CH4

WAVE SELECT
STD | ARB
FREQ | AMPL
MODE | SEQUENCE

WAVE EDIT
CREATE | MODIFY
OFFSET | FILTER
HOLD | TRIG OUT

RECALL | INTER CH | SWEEP
STORE | COPY CH | UTILITY

POWER

STATUS
LOCAL
REMOTE
LCD

MAN HOLD
MAN TRIG
MODULATION
TRIG IN

SYNC OUT

```
ANLZ MATH STATS
Max 1.000102V⎓
# 65 /100            Avg  1.000032
Min .999846V⎓        StdDv .000056
#SAMPLES                      STOP
```

```
ANLZ TREND PLOT
VMax 15.0000V⎓
   50s
VMin 10.0000V⎓
  START
```

```
ANLZ HISTOGRAM
Avg  1.000032
# 65 /100

  START
```
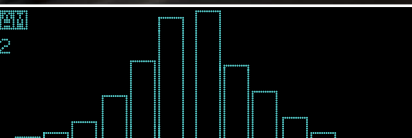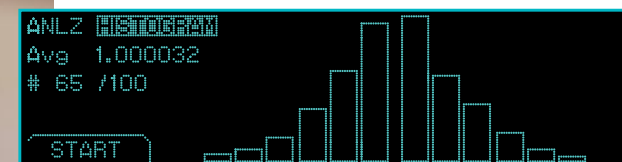
Fluke 8845A/8846A
Digital Multimeters

Precision and versatility
for bench or
systems applications

Exceed your expectations for performance and value


```
ANLZ MATH  STATS
Max 1.000102V=
# 65 /100              Avg  1.000032
Min .999946V=          StdDv .000056
 #SAMPLES                           STOP
```

Handle even the most demanding measurements with high accuracy and 6.5 digit resolution.

```
ANLZ  TREND PLOT
VMax 15.0000V=
    50s
VMin 10.0000V=
    START
```

Use the built-in TrendPlot paperless chart recorder to graphically identify the extent of drift and intermittent events in analog circuits.

```
ANLZ HISTOGRAM
Avg  1.000032
# 65 /100
    START
```

View results in Histogram mode to reveal stability or noise problems in analog circuits.

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 Ω to 1 GΩ with up to 10 µΩ 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™ paperless recorder mode, statistics, histogram
- CAT I 1000 V, CAT II 600 V

The Fluke 8845A and 8846A 6.5 digit precision multimeters have the precision and versatility to handle your most demanding measurements, on the bench or in a system. These meters are both high performance and feature rich, yet also remarkably easy to use.

These digital multimeters perform the functions you would expect to see in a multifunction DMM, including measuring volts, ohms, and amps. Basic V dc accuracy of up to 0.0024 %, 10 A current range, and a wide ohms range give you an unbeatable combination of measurement capability.

You can also use the 8845A and 8846A to measure temperature, capacitance, period, and frequency—the functions of a counter, capacitance meter, and thermometer are built in for unparalleled versatility. Extend the meters' utility even more with their graphical display modes, including Trendplot™ paperless recorder mode, statistics and histograms—features you won't find on other multimeters.

Of course, these meters are also durable and dependable, features you expect from any Fluke meter. This unique combination of features and performance makes the 8845A and 8846A an unbeatable value for a wide variety of applications, including manufacturing test, research and development, and service.
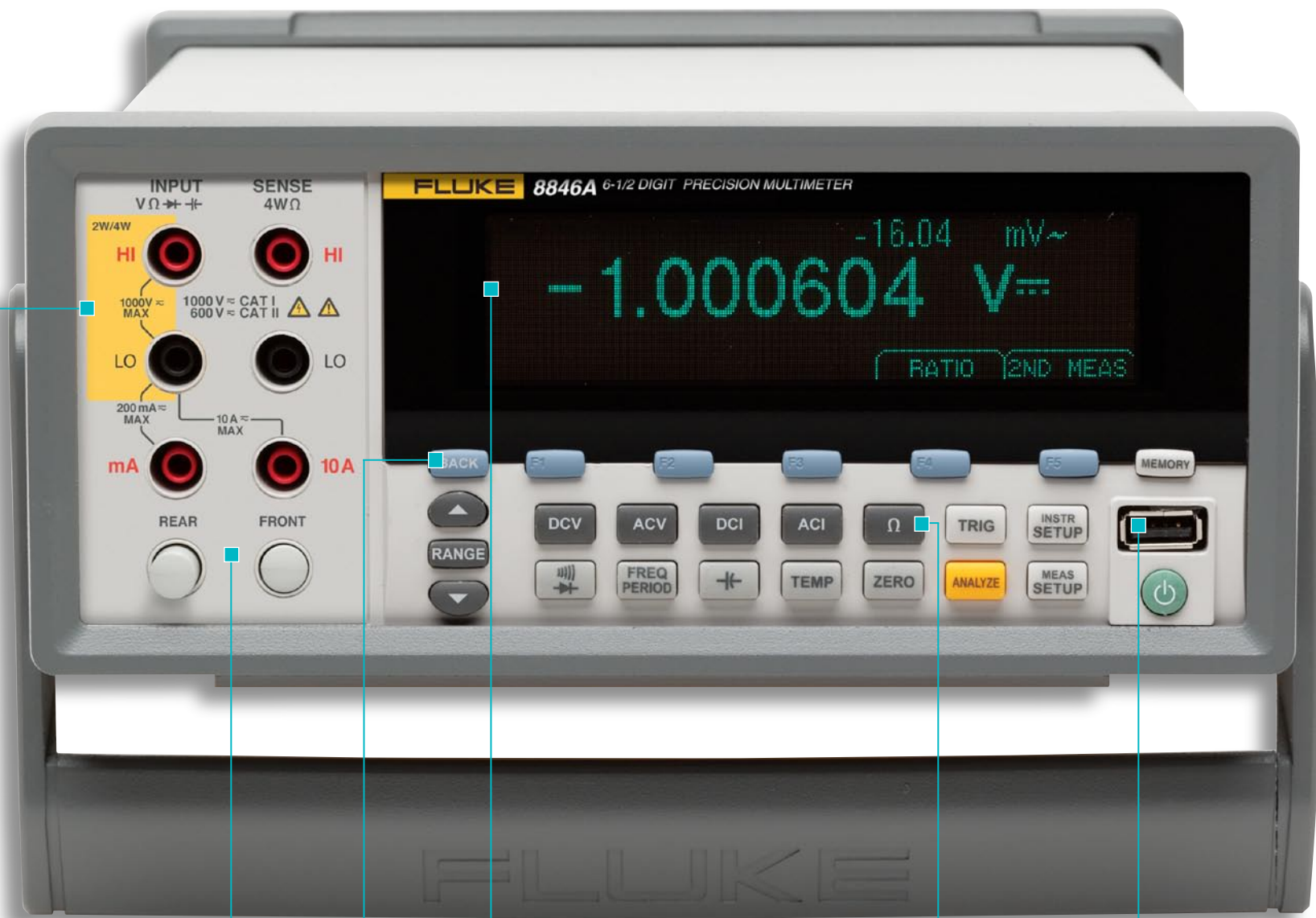
With 14 measurement functions, math and analysis modes, the 8845A/8846A will meet the needs of any test, research and development, or service application.

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

FLUKE 8846A 6-1/2 DIGIT PRECISION MULTIMETER

-16.04 mV~

-1.000604 V⎓

RATIO | 2ND MEAS

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 standards.

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

Versatile solutions for advanced test 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 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.

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

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.

Patented split terminal jacks enable 4-wire measurements with two leads

Clear and bright dual display shows data in graphic or numeric formats

USB port for flash memory devices (8846A) provides convenient data storage and transport

Input terminals are located on the front and back of the meter to simplify connections within a system

Context sensitive soft function keys make it easy to navigate through measurements and instrument settings

Single button per function for ease of use

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.

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 histo-gram, with the unique analyze mode. You won't find graphical display capabilities like these on any other instrument in this class.
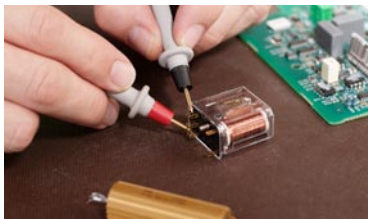
Perform 4-wire measurements with only two leads

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® 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® 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, non-customizable 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® Forms version 3.0 with FVF-UG.

Fluke 45 and Agilent 34401A emulation

The 8845A/8846A emulate operation and program-ming 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 ser-vice centers strategically located around the world. Each offers a full range of support services.

Summary Specifications

Measurement Function	8845A	8846A
Display	VFD Dot Matrix	
Resolution	6.5 Digits	
Measurement Function	Accuracy, ± (% of reading + % of range), one year after calibration	
V DC		
Ranges	100 mV to 1000 V	
Max. Resolution	100 nV	
Accuracy	0.0035 + 0.0005	0.0024 + 0.0005
V AC		
Ranges	100 mV to 750 V	100 mV to 1000 V
Max. Resolution	100 nV	
Accuracy	0.06 + 0.03	0.06 + 0.03
Frequency	3 Hz to 300 KHz	
Resistance		
2x4 Wire	Yes	Yes
Ranges	100 Ω to 100 MΩ	10 Ω to 1 GΩ
Max. Resolution	100 µΩ	10 µΩ
Accuracy	0.010 + 0.001	0.010 + 0.001
A DC		
Ranges	100 µA to 10 A	100 µA to 10 A
Max. Resolution	100 pA	100 pA
Accuracy	0.050 + 0.005	0.050 + 0.005
A AC		
Ranges	10 mA to 10 A	100 µA to 10 A
Max. Resolution	10 µA	100 pA
Accuracy	0.10 + 0.04	0.10 + 0.04
Frequency	3 Hz to 10 kHz	3 Hz to 10 kHz
Freq/Period		
Ranges	3 Hz to 300 kHz	3 Hz to 1 MHz
Max. Resolution	1 µHz	1 µHz
Accuracy	0.01 %	0.01 %
Continuity/ Diode Test	Yes	Yes
Capacitance		
Ranges	–	1 nF to 0.1 F
Max. Resolution	–	1 pf
Accuracy	–	1 %
Temperature		
Type		Platinum RTD
Range	–	-200 °C to +600 °C
Max. Resolution	–	0.01 °
Accuracy	–	0.06 °
Math Functions		
	Zero, Min/Max/Average, Std Dev; mx+b	
dB/dBm	Yes	Yes
Advanced Functions		
Statistics/Histogram	Yes	
Trendplot	Yes	
Limit Test	Yes	
Input Output		
USB Memory	–	USB memory drive port
Real Time Clock	–	Yes
Interfaces	RS 232, IEE-488.2, Ethernet, USB (with optional adaptor)	
Programming Languages/ Modes	SCPI (IEEE-488.2), Agilent 34401A, Fluke 45	
General		
Weight	3.6 kg (8.0 lbs)	
Size (HxWxD)	88 mm x 217 mm x 297 mm (3.46 in x 8.56 in x 11.7 in)	
Safety	Designed to comply with IEC 61010-1 2000-1, ANSI/ISA-S82.01-1994, CAN/CSA-C22.2 No. 1010.1-92 CAT I 1000 V, CAT II 600 V	
Warranty	One year	

Ordering Information

Models

8845A 6.5 digit precision multimeter, 35 ppm

8846A 6.5 digit precision multimeter, 24 ppm USB mem

Options and Accessories

TL71 Test Lead Set, Premium DMM

TL910 Precision Electronic Probe Set

884X-SHORT 4-Wire Short

TL2X4W-PT 2x4 Wire Ohms Test Lead 2 mm Probe Tip

884X-RTD 100 Ohm RTD Temperature Probe

884X-512M USB Memory 512 M

884X-1G USB Memory 1 GB

Y8022 IEEE488 cable (2 m)

884X-USB USB to RS232 cable adapter

FVF-UG FlukeView Forms Software Upgrade—No Cable

Y8846 Rack Mount Kit

Fluke supports you by supplying information about Fluke tools and how to use them. Visit the Fluke web site at **www.fluke.com** for product descriptions, application notes and white papers. You will also find newsletters, online communities, downloadable manuals, and much more.

Fluke. *Keeping your world up and running.™*

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http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное   производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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