

Fluke Bench Multimeters

Precision and versatility for bench or systems applications



8845A/8846A 6.5 digit multimeters: Precision multimeter for bench or automated test system applications



The Fluke 8845A and 8846A 6.5 digit precision CAT II 600 V 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 %, 100 uA to 10 A current ranges, and a wide ohms range from 10 Ohms to 1 GOhm 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—Log readings to a USB flash drive and easily transfer them over to a PC with the 8846A USB device host



measurements with high accuracy and 6.5 digit resolution.



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

ANLZ 119005293 # 058 Avg 1.19000 SD 5.99590	
RESTART	

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

port—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.

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. Looking at dual interrelated parameters like voltage and current simultaneously can reveal conditions that might go unnoticed otherwise, greatly simplifying test and troubleshooting.

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 analysis. To reveal signal quality issues like drift, intermitants 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.

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.

Fluke 45 and Agilent 34401A emulation

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

Easy to integrate into your automated test system

Front and rear inputs let you easily make connections where it's most convenient, whether the meter is rackmounted or used on a bench. Multiple interfaces provide compatibility to existing and new standards. Reading rates are up to 1000 readings per second, giving you the throughput you need for systems applications.

Multiple connectors give you maximum flexibility

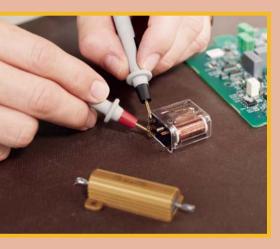
Choose from several interfaces to connect the 8845A/8846A to a personal computer: serial, IEEE-488, and Ethernet come standard on both models. A USB device port is included on the 8846A meter for convenient data transfer to and from a PC via a portable USB storage device.

8845A/8846A features at a glance

- 6.5 digit resolution
- \bullet Basic V dc accuracy of up to 0.0024%
- Dual display
- 100 µA toa 10 A current range, with up to 100 pA resolution
- Wide ohms ranges from 10 Ω to 1 G Ω with up to 10 $\mu\Omega$ resolution
- 2 x 4 ohms 4-wire measurement technique

- Measures frequency and period
- Measures capacitance and RTD temperature (8846A)
- USB memory drive port (8846A)
- Fluke 45 and Agilent 34401A remote command emulation
- Graphical display
- Trendplot[™] paperless recorder mode, statistics, histogram
- CAT I 1000 V, CAT II 600 V

Making measurement is as simple as pushing a button



Perform 4-wire measurements with only two leads (8845A/8846A and 8808A)

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.

Fluke support completes the equation of value

Like all Fluke products, the 8845A/8846A and 8808A 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.

FlukeView® Forms Basic

The Fluke 8845A/8846A and 8808A ship with a free copy of FlukeView 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 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.

Clear and bright dual display shows data in graphic or num<u>eric format.</u>

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

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

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

Single button per function for ease of use.

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

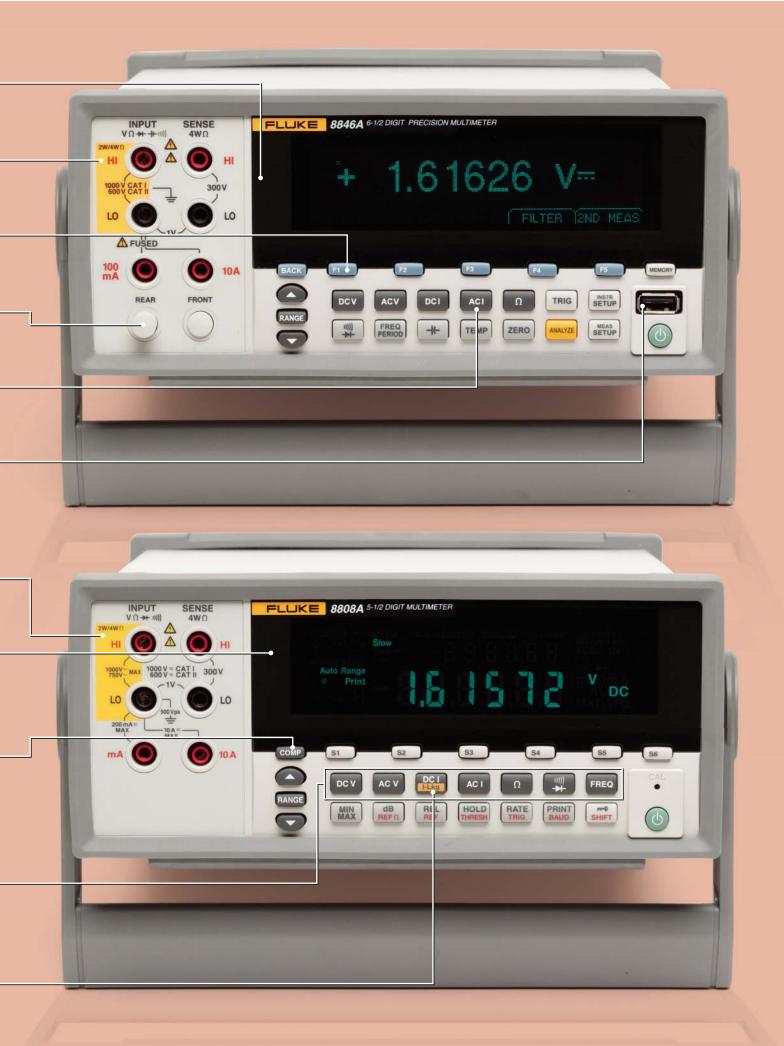
Patented split terminal jacks enable 4-wire measurements with just two leads.

Clear and bright dual display lets you measure two different parameters of the same signal from one test connection.

Limit compare mode compares the current reading to predefined High and Low limits. If an out of tolerance reading occurs the display clearly shows the operator whether a test passes or fails. Used in combination with the front panel setup keys makes manual test processes simple, repeatable and efficient.

Setup keys make performing your most common measurements as simple as pressing a button. Increase quality and test times by improving test repeatability by simply saving known measurement setups to front panel accessible setup keys. All the operator has to do is select the right setup key.

i-Lkg function adds two additional hi-impedance ranges for sensitive low current measurements.



8808A 5.5 digit multimeter: Versatile multimeter for manufacturing, development and service applications

The Fluke 8808A 5.5 digit multimeter has a broad range of functions, measuring volts, ohms and amps with a basic V dc accuracy of 0.01 %.

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. With measurement functions including volts, ohms, amps and frequency, the Fluke 8808A also provides the performance and flexibility required from a bench meter in R&D, development and service applications.

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

8808A features at a glance

- 5.5 digit resolution
- \bullet Basic V dc accuracy of 0.01%
- Dual display
- Dedicated dc leakage current measurement
- 2x4 ohms 4-wire measurement technique
- Six dedicated buttons for fast access to instrument setups
- Hi/Lo limit compare for Pass/Fail testing

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.



The 8808A can measure small leakage currents with a resolution of up to 100 nA, without loading the circuit under test.



Set up six common measurements via the front panel buttons, then simply press the appropriate key to perform each one.



The limit compare mode with pass/ fail indicators can help you eliminate production mistakes.



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

Using a typical multimeter to perform a sensitive low current measurement of less than 100 mA can load the circuit under test while the measurement is made. This makes it difficult, if not impossible, to perform tasks such as determining the leakage current on a battery-powered device while it is powered down. The Fluke 8808A is the only multimeter in its class to use a high impedance input technique to perform this type of critical leakage current measurement. In this special mode, the 8808A can measure small currents with a resolution of up to 100 nA, without loading the circuit under test.



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.

With measurement functions including volts, ohms, amps and frequency, the Fluke 8808A also provides the performance and flexibility required from a bench meter in R&D, development and service applications.



Summary Specifications

display Resolution display S & digits 6.5 digits Measurement function Accuracy. 2 (% of reading +% of range) V de Control on V to 1000 V Ranges 200 mV to 1000 V 100 mV to 1000 V Max resolution 1 uV 100 mV to 1000 V Accuracy 0.015 + 0.003 0.0035 + 0.0005 0.0024 + 0.0005 V accuracy 0.02 + 0.05 0.06 + 0.03 0.06 + 0.03 0.06 + 0.03 Ranges 200 mV to 750 V 100 mV to 750 V 100 mV to 1000 V Max resolution 1 uV 100 mV 100 mV 0.06 + 0.03 Ranges 200 Q to 100 MQ 100 Q to 100 MQ 10 Q to 1 60.01 Max resolution 1 mΩ 100 µΩ 10 µΩ Accuracy 0.02 + 0.003 0.010 + 0.001 0.010 + 0.001 Accuracy 0.02 + 0.003 0.010 + 0.001 0.00 µA to 10 A Max resolution 1 nA 100 µA 100 µA 0.00 µA Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Max resolution 1 nA 100 µA to 10 A <th></th> <th></th> <th></th> <th></th>					
display display 6.5 digits Resolution Accuracy. ± (% of reading +% of range) Vide Standard		8808A	8845A	8846A	
Resolution 5.5 digits 6.5 digits Accuracy_2 (% of reading + %) of range) Vic Ranges 200 mV to 1000 V 100 mV to 1000 V Ranges 200 mV to 1000 V 100 mV to 1000 V Max. resolution 1 uV 100 mV to 1000 V Accuracy 0.015 + 0.003 0.0035 + 0.0006 0.0024 + 0.0008 Vac Ranges 200 mV to 750 V 100 mV to 750 V 100 mV to 1000 V Max. resolution 1 uV 0.006 + 0.03 0.0024 + 0.000 N/Hz Resistance Yes 3 Hz to 300 KHz Resistance Zak Witre Yes Non Month 100 µA 100 µA to 10 A Accuracy 0.02 + 0.003 0.001 + 0.001 0.010 µA 100 µA to 10 A Accuracy 0.02 + 0.003 0.000 µA to 10 A 100 µA to 10 A 100 µA to 10 A Accuracy 0.02 µA to 10 A 100 µA to 10 A 100 µA to 10 A Accuracy 0.03 + 0.06 0.01 + 0.04 0.10 µA to 10 A Accuracy 0.03 + 0.06 0.01 + 0.04 0.10 µA to 10 A Max. resolution<	Display	VFD multi segment	VFD do	t matrix	
Max.resolution Accuracy, 2 (% of reading + % of range) V de Ranges 200 mV to 1000 V 100 mV to 1000 V Max. resolution 1 uV 100 mV to 1000 V Max.resolution 1 uV 100 mV to 750 V 100 mV to 1000 V Max.resolution 1 uV 100 mV to 750 V 100 mV to 1000 V Max.resolution 1 uV 100 mV to 750 V 100 mV to 1000 V Max.resolution 1 uV 100 mV to 750 V 100 mV to 1000 V Max.resolution 0.2 + 0.05 0.06 + 0.03 0.06 + 0.03 Max.resolution 1 mΩ 100 µA 100 µA to 10 A Max.resolution 1 mΩ 100 µA to 10 A 100 µA to 10 A Max.resolution 1 mA 100 µA to 10 A 100 µA to 10 A Max.resolution 1 mA 100 µA to 10 A 100 µA to 10 A Max.resolution 10 0 µA 100 µA to 10 A 100 µA to 10 A Max.resolution 10 0 µA 100 µA to 10 A 100 µA to 10 A Max.resolution 10 0 µA 100 µA to 10 A 100 µA to 10 A Max.resolution 10			and the second sec		
Y de Ranges 200 mV to 1000 V 100 mV to 1000 V Max resolution 1 uV 0.0035 ± 0.0003 0.0024 ± 0.0005 Accuracy 0.015 ± 0.003 0.0035 ± 0.0003 0.0024 ± 0.000 V Max resolution 1 uV 100 mV to 1000 V 100 mV to 1000 V Max resolution 1 uV 100 mV to 1000 V 100 mV to 1000 V Max resolution 1 uV 0.06 ± 0.03 0.06 ± 0.03 Resistance 200 D to 100 MΩ 100 Q to 10 Ω 10 Q to 16 Ω Ranges 200 D to 100 MΩ 100 Q to 10 Ω 10 Q to 16 Ω Max resolution 1 mΩ 100 Q A 100 Q A 100 Q A Max resolution 1 nA 100 Q A 100 Q A 100 Q A Ranges 200 mA to 10 A 100 mA to 10 A 100 Q A to 10 A 100 Q A to 10 A Ranges 20 mA to 10 A 100 mA to 10 A 100 Q A to 10 A 100 Q A to 10 A Ranges 20 mA to 10 A 10 mA to 10 A 100 Q A to 10 A 100 Q A to 10 A Ranges 20 mA to 10 A 10 mA to 10 A 100 Q A to 10 A 10	Resolution	_	5		
Ranges 200 mV to 1000 V 100 mV to 1000 V Max. resolution 1 uV 100 mV to 2000 V Accuracy 0.015 + 0.030 0.0035 + 0.0005 0.0024 + 0.0005 V Ranges 200 mV to 750 V 100 mV to 750 V 100 mV to 750 V Ranges 200 mV to 750 V 100 mV to 750 V 100 mV to 1000 V Max. resolution 1 uV 100 mV to 750 V 100 mV to 750 V Ranges 0.2 + 0.03 0.06 + 0.03 0.06 + 0.03 Zet Vitre Ves State to 300 KHz 3 Hz to 300 KHz Ranges 200 mV to 100 MD 100 mV to 100 MD 100 L4 to 100 Max. resolution 1 mA 100 µA to 10A 100 µA to 10A Ranges 200 µA to 10A 100 µA to 10A 100 µA to 10A Ranges 20 mA to 10A 100 µA to 10A 100 µA to 10A Ranges 20 mA to 10A 10 mA to 10A 100 µA to 10A Ranges 20 mA to 10A 10 mA to 10A 100 µA to 10A Ranges 20 mA to 10A 10 mA to 10A 100 µA to 10A Ranges <		Accurac	y, \pm (% of reading + % of r	ange)	
Max. resolution 1 uV 100 nV Accuracy 0.015 + 0.003 0.0035 + 0.0005 0.0024 + 0.0005 Max resolution 1 uV 100 mV to 250 V 100 mV to 1000 V Max resolution 1 uV 100 mV to 250 V 100 mV to 1000 V Max resolution 1 uV 32 to 300 KHz 32 to 300 KHz Resistance 200 LHz to 100 MΩ 100 Q Lo 10 G0 MΩ 10 Q Lo 1 GQ Akx resolution 1 mΩ 100 Q L 0 (L) G Akx resolution 1 mΩ 100 Q L 0 (L) G Akx resolution 1 mA 100 Q μA to 10 A 100 μA to 10 A Accuracy 0.02 + 0.003 0.050 + 0.005 0.050 + 0.005 Accuracy 0.02 + 0.003 0.050 + 0.005 Accuracy Accuracy 0.3 + 0.05 0.050 + 0.005 Accuracy Accuracy 0.3 + 0.06 0.01 + 0.04 0.01 + 0.04 Accuracy 0.3 + 0.05 0.01 + 0.01 F Max resolution Accuracy 0.3 + 0.06 0.01 + 0.01 F Max resolution Accuracy 0.3 + 0		000 IV. 1000 V	100 11	100014	
Accuracy 0.015 + 0.003 0.0035 + 0.0005 0.0024 + 0.0005 V ac Barges 200 mV to 750 V 100 mV to 750 V 100 mV to 1000 V Max, resolution 1 uV 0.06 + 0.03 0.06 + 0.03 Prequency 20 Hz to 100 KHz 3 Hz to 300 KHz 3 Hz to 300 KHz Restance 220 Hz to 100 KHz 0.01 + 0.03 100 µC 100 µC Restance 220 Hz to 100 MΩ 100 µC 100 µC 100 µC Accuracy 0.02 + 0.003 0.010 + 0.001 0.010 + 0.001 Accuracy Accuracy 0.02 + 0.003 0.010 + 0.001 0.010 µC 100 µA 100 µA Accuracy 0.02 + 0.003 0.010 + 0.001 0.010 µA 100 µA 100 µA Accuracy 0.02 µA to 10 A 100 µA 100 µA 100 µA 100 µA Accuracy 0.02 µA to 10 A 100 µA 100 µA 100 µA 100 µA Ranges 20 mA to 10 A 100 µA 100 µA 100 µA 100 µA 100 µA Ranges 20 mA to 10 A 100 µA 10					
V ac 100 mV to 750 V 100 mV to 750 V 100 mV to 1000 V Mar, resolution 1 uV 100 mV to 750 V 100 mV to 1000 V Accuracy 0.2 + 0.05 0.06 + 0.03 0.06 + 0.03 Prequency 20 Hz to 100 MHz 3 Hz to 300 KHz Ranges 200 Q to 100 MΩ 100 μΩ 10 Q to 1 GΩ Ranges 200 Q to 100 MΩ 100 μΩ 10 μΩ Max, resolution 1 mΩ 100 μΩ 10 μΩ Accuracy 0.02 + 0.003 0.010 + 0.001 0.010 A Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.03 + 0.06 0.10 + 0.04 0.10 + 0.04 Accuracy 0.03 + 0.06 0.10 + 0.04 0.10 + 0.04 Prequency 2.0 Hz to 1 MHz 3 Hz to 1 MHz 1 Hz Accuracy 0.0 H% 0.01 % 0.01 % Accuracy 0.0 H% 0.01 %					
Ranges 200 mV to 750 V 100 mV to 750 V 100 mV to 1000 V Max. resolution 1 uV 100 mV to 750 V 100 mV to 1000 V Accuracy 0.2 + 0.05 0.06 + 0.03 0.06 + 0.03 0.06 + 0.03 Zew Vire Yes 3 Hz to 300 KHz 3 Hz to 300 KHz 3 Hz to 300 KHz Ranges 200 Qt to 100 MΩ 100 Qt to 100 MΩ 10 Qt to 1 GΩ 100 Qt to 10 A Max. resolution 1 mΩ 100 Qt to 100 MΩ 100 Qt to 10 A 100 Qt to 10 A Accuracy 0.02 + 0.003 0.010 + 0.001 0.010 + 0.001 Accuracy Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.02 + 0.005 0.010 + 0.04 100 pA Accuracy 0.03 + 0.06 0.010 + 0.04 0.010 + 0.04 Accuracy 0.01 mKz 3 Hz to 10 MEz 1 Hz		0.015 + 0.003	0.0035 + 0.0005	0.0024 + 0.0005	
Max. resolution 1 uV 100 nV Accuracy 0.24 ± 0.05 0.06 ± 0.03 0.06 ± 0.03 Prequency 20 Lis to 100 KHz 3 His to 300 KHz Ranges 200 Ω to 100 MΩ 100 Ω to 1 GΩ Ranges 200 Ω to 100 MΩ 100 Ω to 1 GΩ Max. resolution 1 mΩ 100 µΩ 10 Ω to 1 GΩ Accuracy 0.02 + 0.003 0.010 + 0.001 0.010 + 0.001 Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Max. resolution 1 nA 100 µA to 10A 100 µA to 10A Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Ranges 20 Hz to 2 Hz 3 Hz to 10 AHz 100 µA to 10A Max. resolution 100 µA 100 µA to 10A 100 µA to 10A Max. Resolution - 1 µFz 1 µFz <t< td=""><td></td><td>200 mV to 750 V</td><td>100 mV to 750 V</td><td>100 mV to 1000 V</td></t<>		200 mV to 750 V	100 mV to 750 V	100 mV to 1000 V	
Accuracy 0.2 + 0.05 0.06 + 0.03 0.06 + 0.03 Prequency 20 Hz to 100 KHz 3 Hz to 300 KHz 3 Hz to 300 KHz Ranges 200 Q to 100 MQ 100 Q to 100 MQ 10 Q to 1 G Q Max resolution 1 mQ 100 Q to 100 MQ 10 Q to 1 G Q Accuracy 0.02 + 0.003 0.010 + 0.001 0.010 + 0.001 Accuracy 0.02 + 0.003 0.010 + 0.001 0.010 + 0.001 Accuracy 0.02 + 0.003 0.010 + 0.001 0.010 + 0.001 Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.03 + 0.06 0.10 + 0.04 0.10 - 0.04 Accuracy 0.3 + 0.06 0.10 + 0.04 0.10 + 0.04 Accuracy 0.3 + 0.06 0.10 + 0.04 0.10 + 0.04 Accuracy 0.01 % 0.01 % 0.01 % Contnutry/Diode Test Yes Yes Yes Contnutry/Diode Test Yes Yes Yes Tendpbut No <td></td> <td></td> <td></td> <td></td>					
Prequency 20 Hz to 100 KHz 3 Hz to 300 KHz Resistance Zet Wire Yes Ranges 200 Ω to 100 MΩ 100 Ω to 100 MΩ 10 Ω to 1 GΩ Max. resolution 1 mΩ 100 µA to 10 A 100 µA to 10 A Max. resolution 1 nA 100 µA to 10 A 100 µA to 10 A Max. resolution 1 nA 100 µA to 10 A 100 µA to 10 A Max. resolution 1 nA 100 µA to 10 A 100 µA to 10 A Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.02 + 0.005 0.050 + 0.005 Accuracy 0.03 + 0.06 0.10 + 0.04 0.10 µA to 10 A Accuracy .03 + 0.06 0.10 + 0.04 0.10 + 0.04 Prequency 2.0 Hz to 1 MHz 3 Hz to 10 KHz 3 Hz to 1 MHz Ranges 20 Hz to 1 MHz 3 Hz to 10 KHz 3 Hz to 1 MHz Ranges 0.01 % 0.01 % 0.01 % Continuity/Diode Test Yes Yes Cacuracy Temperature - 1 nF to 0.1 F					
Resistance Yes Zx4 Wire 200 Ω to 100 MΩ 100 Ω to 100 MΩ 10 Ω Ω to 1 GΩ Max. resolution 1 mΩ 100 µΩ 0.01 + 0.001 0.010 + 0.001 A de ImΩ 100 µA to 10 A 100 µA to					
2x4 Wire Yes Ranges 200 Ω to 100 MΩ 100 Ω to 100 MΩ 10 Ω Ω to 100 Ω Max, resolution 1 nΩ 100 µΩ 10 µΩ Accuracy 0.02 ± 0.003 0.010 ± 0.001 0.010 ± 0.001 Accuracy 0.02 ± 0.005 0.050 ± 0.005 0.050 ± 0.005 Accuracy 0.02 ± 0.005 0.050 ± 0.005 0.050 ± 0.005 Accuracy 0.02 ± 0.005 0.050 ± 0.005 0.050 ± 0.005 Accuracy 0.02 ± 0.005 0.050 ± 0.005 0.050 ± 0.005 Accuracy 0.02 ± 0.005 0.050 ± 0.005 0.050 ± 0.005 Accuracy 0.03 ± 0.06 0.10 ± 0.04 100 µA to 10.A Max, resolution 100 µA 100 µA 100 µA Accuracy 0.04 ± 0.24 Hz 3 Hz to 10 Hz 3 Hz to 10 Hz Ranges 20 Hz to 2 Hiz 3 Hz to 100 Hz 3 Hz to 10 Hz Accuracy 0.01 % 0.01 % 0.01 % Accuracy 0.01 % 0.01 % 0.01 % Accuracy - 1 nP to 0.1 F Ranges			5 112 10 500 MIZ		
Ranges 200 Ω to 100 MΩ 100 Ω to 100 MΩ 10 Ω Ω 10 Ω Ω Max. resolution 1 mΩ 0.01 + 0.001 0.010 + 0.001 Ranges 200 µ to 10 A 100 µ A to 10 A 100 µ A to 10 A Max. resolution 1 n A 100 µ A to 10 A 100 µ A to 10 A Max. resolution 1 n A 100 µ A to 10 A 100 µ A to 10 A Ranges 20 m A to 10 A 100 µ A to 10 A 100 µ A to 10 A Ranges 20 m A to 10 A 100 µ A 100 µ A to 10 A Ranges 20 m A to 10 A 100 µ A 100 µ A to 10 A Max. resolution 100 uA 100 µ A 100 µ A to 10 A Accuracy 0.3 ± 0.06 0.10 ± 0.04 0.01 ± 0.04 Prequency 20 Hz to 2 kHz 3 Hz to 10 kHz 3 Hz to 10 kHz Ranges Check to 1 MHz 3 Hz to 10 kHz 3 Hz to 10 kHz Capacitance Yes - 1 nF to 0.1 F Max. Resolution - - 1 nF to 0.1 F Accuracy - - 1 nF 0.01 * <tr< td=""><td></td><td></td><td>Veg</td><td>2</td></tr<>			Veg	2	
Max. resolution 1 mΩ 100 µΩ 10 µΩ Accuracy 0.02 + 0.003 0.010 + 0.001 0.010 + 0.001 Ranges 200 µA to 10 A 100 µA to 10 A 100 µA to 10 A Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Accuracy 0.03 + 0.06 0.10 + 0.04 100 µA to 10 A Accuracy 0.3 + 0.06 0.10 + 0.04 0.10 + 0.04 Preg/Period 3 Hz to 10 kHz 3 Hz to 10 kHz 3 Hz to 10 kHz Ranges 20 Hz to 1 MHz 1 µHz 1 µHz Accuracy 0.01 % 0.01 % 0.01 % Continuity/Diode Test Yes 10 P 10 P Capacitance Ranges - 1 pf Accuracy - - 10 % Temperature - 0.01 ° 0.01 °		200 O to 100 MO		10 O to 1 GO	
Accuracy 0.02 ± 0.003 0.010 ± 0.001 0.010 ± 0.001 A G Frances 200 µA to 10 A 100 µA to 10 A 100 µA to 10 A Max. resolution 1 nA 100 µA to 10 A 100 µA to 10 A Accuracy 0.02 ± 0.005 0.050 ± 0.005 0.050 ± 0.005 Accuracy 0.02 ± 0.005 0.050 ± 0.005 0.050 ± 0.005 Accuracy 0.02 ± 0.005 0.050 ± 0.005 0.050 ± 0.005 Accuracy 0.02 ± 0.005 0.050 ± 0.005 0.050 ± 0.005 Accuracy 0.02 µA to 10 A 100 µA 100 µA to 10 A Accuracy 0.3 ± 0.06 0.10 ± 0.04 0.10 ± 0.04 Accuracy 0.3 ± 0.06 0.01 ± 0.04 0.01 ± 0.04 Max. Resolution 0.1 mHz 1 µHz 1 µHz 1 µHz Capacitance In Fto 0.1 F Max. Resolution - 1 nF to 0.1 F Max. Resolution - - 1 nF to 0.1 F Max. Resolution - - 1 nF to 0.1 F Max. Resolution - - 200 °C to 600 °C					
A de IOO μA to 10 A IOO μA to 10 A IOO μA to 10 A Ranges 200 μA to 10 A IOO pA IOO pA IOO pA Ranges 20 mA to 10 A IOO pA IOO μA to 10 A IOO μA IOA <					
Ranges 200 µA to 10 A -100 µA to 10 A 100 µA to 10 A Max. resolution 1 nA 100 pA 100 pA Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Aac Construction 100 µA 100 µA 100 µA 0.060 + 0.005 Ranges 20 mA to 10 A 10 mA to 10 A 100 µA 100 µA 0.00 PA Accuracy 0.3 + 0.06 0.10 + 0.04 0.10 + 0.04 0.10 + 0.04 Accuracy 0.3 + 0.06 0.10 + 0.04 0.10 + 0.04 100 µA Freq/Period Temperature 3 Hz to 10 KHz 3 Hz to 10 KHz 3 Hz to 10 KHz Capacitance 20 Hz to 1 MHz 1 µHz 1 µHz 1 µHz Accuracy 0.01 % 0.00 % 0.01 % 0.01 % Continuity/Diode Test Yes Temperature Yes Pype - - 1 nf to 0.1 F Max Accuracy - - 1 nf to 0.1 F Max Ranges - - 1 nf to 0.1 F Max <td></td> <td></td> <td>0.010 1 0.001</td> <td>0.010 + 0.001</td>			0.010 1 0.001	0.010 + 0.001	
Max. resolution 1 nA 100 pA 100 pA Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 Ase - 0.050 + 0.005 0.050 + 0.005 Ranges 20 mA to 10 A 10 mA to 10 A 100 µA 100 pA Accuracy 0.3 + 0.06 0.10 + 0.04 0.10 + 0.04 0.10 + 0.04 Prequency 20 Hz to 2 kHz 3 Hz to 10 kHz 3 Hz to 10 kHz 3 Hz to 10 kHz Frequency 20 Hz to 2 kHz 3 Hz to 300 kHz 3 Hz to 10 kHz 1 µHz Continuity/Diode Test (freq only) 3 Hz to 10 kHz 1 µHz 1 µHz Accuracy 0.01 % 0.01 % 0.01 % 0.01 % Continuity/Diode Test Yes Tespeitance 1 nF to 0.1 F Max. Resolution - - 1 nf to 0.1 F Accuracy - - 1 nf to 0.1 F Max. Resolution - - 0.0 °C Accuracy - - 0.0 °C Max. resolution - - 0.0 °C <		200 µA to 10 A	100 µA to 10 A	100 µA to 10 A	
Accuracy 0.02 + 0.005 0.050 + 0.005 0.050 + 0.005 A cc					
Rac IO mA to 10 A IO mA to 10 A IOO μA to 10 A Max. resolution 1.00 uA 1.0 μA 1.00 μA 1.00 μA Accuracy 0.3 + 0.06 0.10 + 0.04 0.10 + 0.04 Frequency 20 Hz to 2 kHz 3 Hz to 10 kHz 3 Hz to 10 kHz Ranges 20 Hz to 2 kHz 3 Hz to 300 kHz 3 Hz to 1 MHz (freq only) Max. Resolution 0.1 mHz 1 μHz 1 μHz Continuity/Diode Test Yes Continuity/Diode Test Yes Capacitance 1 nF to 0.1 % 0.01 % Ranges - - 1 nf to 0.1 % Accuracy - - 1 nf to 0.1 % Accuracy - - 1 nf to 0.1 % Max. Resolution - - 1 nf to 0.1 % Accuracy - - 1 nf to 0.1 % Max. resolution - - 0.01 % Accuracy - - 0.01 % Pypes - 200 °C to +600 °C Ma			•	-	
Ranges 20 mA to 10 A 10 mA to 10 A 100 µA 100 µA Max. resolution 100 uA 10 µA 100 pA Accuracy .0.3 + 0.06 0.10 + 0.04 0.10 + 0.04 Prequency 20 Hz to 2 KHz 3 Hz to 10 KHz 3 Hz to 10 KHz Prequency 20 Hz to 1 MHz 3 Hz to 10 KHz 3 Hz to 10 KHz Prequency 20 Hz to 1 MHz 3 Hz to 10 KHz 3 Hz to 1 MHz Max. Resolution 0.1 mHz 1 µHz 1 µHz Accuracy 0.01 % 0.01 % 0.01 % Continuty/Diode Test			-		
Max. resolution 100 μA 10 μA 100 μA Accuracy 0.3 + 0.06 0.10 + 0.04 0.10 + 0.04 Prequency 20 Hz to 2 kHz 3 Hz to 10 kHz 3 Hz to 10 kHz Ranges 20 Hz to 2 kHz 3 Hz to 10 kHz 3 Hz to 10 kHz Ranges 20 Hz to 2 kHz 3 Hz to 300 kHz 3 Hz to 10 kHz Accuracy 0.01 % 0.01 % 0.01 % Continuity/Diode Test Yes Yes Capacitance Yes 1 nF to 0.1 F Max. Resolution - 1 of f Accuracy - 1 nf to 0.1 F Max. Resolution - - 1 nf to 0.1 F Max. Resolution - - 1 nf to 0.1 F Max. Resolution - - 1 nf to 0.1 F Accuracy - - 1 nf to 0.1 F Max. Resolution - - 0.01 ° Accuracy - - 0.00 °C Max. resolution - - 0.01 ° Accuracy -		20 mĀ to 10 Ā	10 mA to 10 A	100 µA to 10 A	
Accuracy $0.3 + 0.06$ $0.10 + 0.04$ $0.10 + 0.04$ Prequency 20 Hz to 2 KHz 3 Hz to 10 KHz 3 Hz to 10 KHz 3 Hz to 10 KHz Ranges 20 Hz to 1 MHz 1 µHz 1 µHz 1 µHz Accuracy 0.01 % 0.01 % 0.01 % Continuity/Diode Test Yes Stato 0.1 % 0.01 % Continuity/Diode Test					
Prequency 20 Hz to 2 kHz 3 Hz to 10 kHz 3 Hz to 10 kHz Ranges 20 Hz to 1 MHz 3 Hz to 300 kHz 3 Hz to 1 MHz (freq only) 1 µHz 1 µHz 1 µHz Accuracy 0.01 % 0.01 % 0.01 % Capacitance Capacitance Capacitance 1 pf Ranges - - 1 nF to 0.1 F Capacitance - - 1 pf Accuracy - - 1 nf Temperature - - 0.01 ° Tremperature - - 0.01 ° Accuracy - - - 0.06 ° Math functions - - 0.06 ° Math Types - Zero, Min/Max/Average, Std Dev; mx+b 4B/dBm Yes Yes Advanced functions Statistics/Histogram No Yes Yes Yes Ipuit output USB memory - - USB memory drive por Simplified ASCI, Fluke 45 SCPI (IEEE-488.2), Agit=nt 34401A, Fluk		0.3 + 0.06			
Preq/Period Ranges 20 Hz to 1 MHz 3 Hz to 300 kHz 3 Hz to 1 MHz Max. Resolution 0.1 mHz 1 µHz 1 µHz Accuracy 0.01 % 0.01 % 0.01 % Continuity/Diode Test Yes Capacitance Ranges - - 1 nF to 0.1 F Max. Resolution - - 1 nf to 0.1 F Max. Resolution - - 1 nf to 0.1 F Max. Resolution - - 1 nf to 0.1 F Max. Resolution - - 1 nf to 0.1 F Max. Resolution - - 1 nf to 0.1 F Max. resolution - - 1 nf Accuracy - - 1 nf Range - - - 1 nf Max. resolution - - 0.01 ° Accuracy - - 0.01 ° Accuracy - - 0.01 ° Max. resolution - - 0.01 ° Accuracy - - 0.01 ° Types - Zero, Min/Max/Average, Std Dev; mx+b B/dBm Yes Yes Interdipt No Yes Inglabriange					
Ranges 20 Hz to 1 MHz (freq only) 3 Hz to 300 kHz 3 Hz to 1 MHz (freq only) Max. Resolution 0.1 mHz 1 µHz 1 µHz Accuracy 0.01 % 0.01 % 0.01 % Continuity/Diode Test Ves Capacitance Ranges - - 1 nF to 0.1 F Accuracy - - 1 nF to 0.1 F Max. Resolution - - 1 nf to 0.1 F Accuracy - - 1 nf Pype - - 1 nf Range - - 0.01 ° Max. Resolution - - 0.01 ° Accuracy - - 0.01 ° Accuracy - - 0.06 ° Max. resolution - - 0.06 ° Max. resolution - - 0.01 ° Accuracy - Zero, Min/Max/Average, Std Dev; mx+b B/dBm Yes Yes Trendplot No Yes Inst Test Yes Yes Inst			11 1 1		
(freq only)(freq only)Max. Resolution0.1 mHz1 µHz1 µHzAccuracy0.01 %0.01 %0.01 %Continuity/Diode TestYesCapacitanceRanges1 nF to 0.1 FMax. Resolution1 nF to 0.1 FAccuracy1 nF to 0.1 FAccuracy1 nF to 0.1 FTemperatureType-Patinum RTDRange0.00 °C to +600 °CMax. resolutionAccuracy0.01 °Accuracy0.00 °CMax. resolution0.00 °CMach functions0.00 °CTypes-Zero, Min/Max/Average, Std Dev; mx+bdB/dBmYesYesYesYesYesYesYesYesYesYesYesYesYesYesYesYesYesYesYesYesYesYesYesYesYesYesYes </td <td></td> <td>20 Hz to 1 MHz</td> <td>3 Hz to 300 kHz</td> <td>3 Hz to 1 MHz</td>		20 Hz to 1 MHz	3 Hz to 300 kHz	3 Hz to 1 MHz	
Max. Resolution0.1 mHz1 µHz1 µHzAccuracy0.01 %0.01 %0.01 %Continuity/Diode TestYesCapacitanceRangesIn Pt o 0.1 FMax. Resolution1 nF to 0.1 FMax. Resolution1 MgAccuracy1 MgPartial Max. ResolutionRangeMax. resolutionAccuracyMax. resolutionAccuracyAccuracyMax. resolutionAccuracyMax. resolutionAccuracyMax. resolutionAccuracyMax. resolutionAccuracyMax. resolution-0.01 °AccuracyMax. resolution-TrendplotYesStatistics/HistogramNoYesYesImit TestYesYesUSB memoryUSB memory drive porReal time clockNoNoYesInterfacesRS-232, USB with optional adapterProgramming Languages/ ModesSimplified ASCII, Fluke 45Size (HxWzD)Seimed to comply w	3	(freq only)			
Accuracy 0.01% 0.01% 0.01% Continuity/Diode TestYesCapacitanceRanges-Ranges- $-$ 1 nF to 0.1 FMax. Resolution- $-$ 1 pfAccuracy- $-$ 1 %TemperatureType-Type-Range- $-$ 200 °C to $+600$ °CMax. resolution- $-$ 0.01 °Accuracy- $-$ 0.01 °Accuracy- $-$ 0.06 °Max. resolution- $-$ 0.06 °Max. resolution- $-$ 0.06 °Max. resolution- $-$ 0.06 °Math functionsTypes-Zero, Min/Max/Average, Std Dev; mx+bdB/dBmYesYesAdvanced functionsStatistics/HistogramNoYesInterfacesRS-232, USB with optional adapterVBB memoryUSB memory-Programming Languages/ ModesSize (HxWzD)Start ASCII, Fluke 45Size (HxWzD)Start ASCII, Fluke 45SafetyDesigned to comply with EN 61010-1; 2004, UL (S82.02.01):2004, UL 61010-1:2004, CAN/CSAlotol - 1:2004, CAN/CSADesigned to comply with IEC 61010-1 2000-1, ANSI/ISA-61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSA	Max. Resolution		1 µHz	1 µHz	
Continuity/Diode TestYesCapacitanceRanges––Ranges––Ranges––InF to 0.1 FMax. Resolution––TemperatureType––Type––Range––Accuracy––Range––Accuracy––Range––Accuracy––Accuracy––O.01 °AccuracyAccuracy––O.06 °Math functionsTypes–Zero, Min/Max/Average, Std Dev; mx+bAddyanced functionsYesStatistics/HistogramNoNoYesInput outputNoUSB memory–USB memory–InterfacesRS-232, USB with optional adapterOptional adapterUSB with optional adaptorProgramming Languages/ ModesSimplified ASCII, Fluke 45Size (HxWxD)88 mm x 217 mm x 297 mmSafetyDesigned to comply with EN 61010-1No. 1010.1-92 CAT I Ioo V, CAT II 600 VSafetyDesigned to comply with EX 61010-1No. 1010.1-92 CAT I Ioo V, CAT II 600 V	Accuracy	0.01 %			
CapacitanceRangesInF to 0.1 FMax. Resolution1 pfAccuracy1 %TemperatureTypeRangeRangeMax. resolution0.01 °Accuracy0.01 °Accuracy0.06 °Math functions0.06 °Statistics/HistogramNoYesTrendplotNoYesInit TestYes-Limit TestYes-USB memoryUSB memoryNoNoYesInterfacesRS-232, USB with optional adapterSCPI (IEEE-488.2), Agilet-ts48.2, Ethernet, USB with optional adaptorProgramming Languages/ Size [HxWxD)S8 mm x 217 mm x 297 mmSafetyDesigned to comply with EN 61010-1No. 1010.1-92 cAT 1SafetyDesigned to comply with EN 61010-1No. 1010.1-92 cAT 1SafetyDesigned to comply with EN 61010-1No. 1010.1-92 cAT 1SafetyDesigned to comply with EN 6		and the set	Yes		
Ranges1 nF to 0.1 FMax. Resolution-1 pfAccuracy-1 %Temperature-1 %Temperature-1 %TemperatureTypeRangeMax. resolution0.01 °Accuracy0.01 °Math functions0.06 °Math functions-200 °C to +600 °CMath functions0.06 °Math functions0.06 °Math functions-Zero, Min/Max/Average, Std Dev; mx+bAdVanced functionsYes-Statistics/HistogramNoYesTrendplotNoYesImit TestYes-USB memoryReal time clockNoNoNoNoYesInterfacesRS-232, USB with optional adapterrogramming Languages/ ModesSimplified ASCII, Fluke 45Stee (HxWxD)Ser (IEEE-468.2), Agit-It-Met 45Stee (HxWxD)SafetyDesigned to comply with EN 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSAAll cloceMassi/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSA-All cloceNo. 1010.1-92 CAT I mor X287 III floo VAnsi/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSA- </td <td></td> <td>the state with the</td> <td></td> <td></td>		the state with the			
Max. Resolution1 pfAccuracy1 %TemperatureTypePlatinum RTDRange200 °C to +600 °CMax. resolution0.01 °Accuracy0.06 °Math functions0.06 °Math functions0.06 °Math functions0.06 °Math functions0.06 °Math functionsYesYesYesAdvanced functionsYesYesYesStatistics/HistogramNoYesTrendplotNoYesYesInput outputUSB memory drive porUSB memoryUSB memory drive porReal time clockNoNoYesInterfacesRS-232, USB with optional adapterSCPI [IEEE-438.2], Agilent 34401A, Fluke 45ModesSimplified ASCII, Fluke 45SCPI [IEEE-438.2], Agilent 34401A, Fluke 45ModesSize (HxWxD)88 mm x 217 mm x 297 mmSafetyDesigned to comply with EN 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSANo. 1010.1-92 CAT I IOOV V, CAT II 600 V		1111-111	-	1 nF to 0.1 F	
Accuracy1 %TemperatureTypePlatinum RTDRange200 °C to +600 °CMax. resolution0.01 °Accuracy0.06 °Math functions0.06 °Math functions0.06 °Math functions0.06 °Math functions0.06 °Math functions0.06 °Math functionsYesYesAdvanced functionsYesYesStatistics/HistogramNoYesInput outputVesYesUSB memoryUSB memory drive porReal time clockNoNoYesInterfacesRS-232, USB with optional adapterUSB with optional adaptorProgramming Languages/ ModesSimplified ASCII, Fluke 45SCPI (IEEE-488.2), Agilent 34401A, Fluke 45General2.1 kg3.6 kgSize (HxWxD)88 mm x 217 mm x 297 mmSafetyDesigned to comply with EN 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSADesigned to comply with IEC 61010-1 2000-1, ANSI/ISA-682.01 1994, CAN/CSA-C22.2 No. 1010.1-92 CAT II 600 V	0	11. 11-3	-	1 pf	
TemperatureFypePlatinum RTDRange200 °C to $+600$ °CMax. resolution0.01 °Accuracy0.06 °Math functionsTypes-Zero, Min/Max/Average, Std Dev; mx+bdB/dBmYesYesAdvanced functionsStatistics/HistogramNoYesTrendplotNoVersInput outputUSB memoryUSB memory drive porGeneralReal time clockNoNoYesInterfacesRS-232, USB with optional adapterSCPI (IEEE-488.2), Agil=tt 34401A, Fluke 45Weight2.1 kgSCPI (IEEE-488.2), Agil=tt 34401A, Fluke 45Weight2.1 kgSafetyDesigned to comply with EN 61010-1:2001, ANSI/ISA-61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSADesigned to comply with EN 61010-1:2001, ANSI/ISA-61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSADesigned to comply with EN 61010-1:2001, ANSI/ISA-61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSADesigned to comply with EO 61010-1:2001, ANSI/ISA-61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSA	Accuracy	0625-	- //-		
Type––Platinum RTDRange––-200 °C to +600 °CMax. resolution––0.01 °Accuracy––0.06 °Math functionsTypes-Zero, Min/Max/Average, Std Dev; mx+bdB/dBmYesYesAdvanced functionsStatistics/HistogramNoTrendplotNoYesImput outputUSB memory––USB memory––Real time clockNoYesInterfacesRS-232, USB with optional adapterSCPI (IEEE-488.2), Agilter 4401A, Fluke 45Weight2.1 kgSCPI (IEEE-488.2), Agilter 54401A, Fluke 45Size (HxWxD)88 mm x 217 mm x 297 mmSafetyDesigned to comply with EN 61010-1Designed to comply with EC 61010-1 2000-1, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSADesigned to comply with CAT II 600 V				The second second	
Range200 °C to +600 °CMax. resolution0.01 °Accuracy0.06 °Math functionsTypes-Zero, Min/Max/Average, Std Dev; mx+bdB/dBmYesYesAdvanced functionsStatistics/HistogramNoYesStatistics/HistogramNoYesInput outputUSB memoryUSB memory drive porReal time clockNoNoYesInterfacesRS-232, USB with optional adapterSCPI (IEEE-488.2), Agiture JatoprProgramming Languages/ Size (HXWXD)Simplified ASCII, Fluke 45SCPI (IEEE-488.2), Agiture JatoprSafetyDesigned to comply with EN 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSADesigned to comply with IGON V, CAT II 600 V				Platinum RTD	
Max. resolution0.01 °Accuracy0.06 °Math functionsTypesZero, Min/Max/Average, Std Dev, mx+bdB/dBmYesYesAdvanced functionsStatistics/HistogramNoYesTrendplotNoYesInput outputUSB memory drive porReal time clockNoNoNoNoYesInterfacesRS-232, USB with optional adapterSCPI (IEEE-488.2), Agileut 34401A, Fluke 45GeneralSCPI (IEEE-488.2), Agileut 34401A, Fluke 45Weight2.1 kg3.6 kgSafetyDesigned to comply with EN 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSADesigned to comply vit IEC 61010-1 2000-1, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSA		_		-200 °C to +600 °C	
Accuracy––0.06 °Math functionsTypes–Zero, Min/Max/Average, Std Dev; mx+bdB/dBmYesYesAdvanced functionsStatistics/HistogramNoStatistics/HistogramNoTrendplotNoInput outputYesUSB memory–Real time clockNoNoYesInterfacesRS-232, USB with optional adapterProgramming Languages/ ModesSimplified ASCII, Fluke 45 Simplified ASCII, Fluke 45Size (HxWxD)88 mm x 217 mm x 297 mmSafetyDesigned to comply with EN 61010–1:2001, ANSI/ISA 61010–1 (\$82.02.01):2004, UL 61010–1:2004, CAN/CSA		_	- 11	0.01 °	
Types–Zero, Min/Max/Average, Std Dev; mx+bdB/dBmYesYesAdvanced functionsYesStatistics/HistogramNoYesTrendplotNoYesLimit TestYesYesInput outputUSB memory–Meal time clockNoNoNoNoYesInterfacesRS-232, USB with optional adapterRS 232, IEE-488.2, Ethernet, optional adapterOptional adapterUSB min x 217 mm x 297 mmSize (HxWxD)SafetyDesigned to comply with EN 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSA		_			
Hardware Advanced functionsYes Ves Advanced functionsVesStatistics/HistogramNoYesTrendplotNoYesLimit TestYesYesInput outputVesUSB memory drive porReal time clockNoNoReal time clockNoNoReal time clockNoNoYesSimplified ASCII, Fluke 45GeneralSimplified ASCII, Fluke 45Weight2.1 kgSize (HxWxD)88 mm x 217 mm x 297 mmSafetyDesigned to comply with EN 61010-1:2001, (S82.02.01):2004, UL 61010-1:2004, CAN/CSA	Math functions				
Advanced functionsStatistics/HistogramNoYesStatistics/HistogramNoYesInput outputLimit TestYesInput outputUSB memory-USB memory-Real time clockNoNoNoNoReal time clockNoNoRS-232, USB with optional adapterSE 232, IEE +488.2, Ethernet, optional adapterOptional adapterUSB with optional adaptorProgramming Languages/Simplified ASCII, Fluke 45SCPI (IEEE-488.2), Agil =- 34401A, Fluke 45ModesGeneralWeight2.1 kg3.6 kgSize (HxWxD)88 mm x 217 mm x 297 mmSafetyDesigned to comply with EN 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSAANSI/ISA-S82.01-194, CAN/CSA-C22.2 No. 1010.1-92 CAT I 1000 V, CAT II 600 V (S82.02.01):2004, UL 61010-1:2004, CAN/CSA	Types		Zero, Min/Max/Average, Std Dev; mx+b		
Statistics/HistogramNo $\forall es$ TrendplotNo $\forall es$ Limit TestYes $\forall es$ Input output $\forall es$ USB memory drive porReal time clockNoNoYesInterfacesRS-232, USB with optional adapterRS 232, IEE-488.2, Ethernet, optional adapterYesProgramming Languages/ ModesSimplified ASCII, Fluke 45SCPI (IEEE-488.2), Agiture 34401A, Fluke 45Weight2.1 kgSCPI (IEEE-488.2), Agiture 54401A, Fluke 45Size (HxWxD) \otimes \otimes SafetyDesigned to comply with EN 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSA \forall	dB/dBm	Yes			
TrendplotNo $\forall es$ Limit TestYes $\forall es$ Input outputUSB memory $-$ USB memory drive porReal time clockNoNoYesInterfacesRS-232, USB with optional adapterRS 232, IEE-488.2, Ethernet, optional adapterSCPI (IEEE-488.2), Agilton adaptorProgramming Languages/ ModesSimplified ASCII, Fluke 45SCPI (IEEE-488.2), Agilton adaptorWeight2.1 kgSCPI (IEEE-488.2), Agilton adaptorSize (HxWxD) $3.6 ext{ scale min x 217 mm x 297 mm}$ SafetyDesigned to comply with EN 61010-1:2001, (S82.02.01):2004, UL (S82.02.01):2004, UL (61010-1:2004, CAN/CSADesigned to comply vith IEC 61010-1 2000 v (S82.02.01):2004, UL (S12.004, CAN/CSA	Advanced functions				
Limit TestYesJestInput outputUSB memoryUSB memory drive porUSB memoryUSB memory drive porReal time clockNoNoYesInterfacesRS-232, USB with optional adapterRS 232, IEE-488.2, Ethernet, optional adapterSCPI (IEEE-488.2), Agilton adaptorProgramming Languages/ ModesSimplified ASCII, Fluke 45SCPI (IEEE-488.2), Agilton adaptorProgramming Languages/ ModesSimplified ASCII, Fluke 45SCPI (IEEE-488.2), Agilton adaptorSize (HxWXD)	Statistics/Histogram	No	Yes		
Input output USB memory - - USB memory drive por Real time clock No No Yes Interfaces RS-232, USB with optional adapter RS 232, IEE-488.2, Ethernet, optional adapter SS 232, IEE-488.2, Ethernet, uSB with optional adaptor Programming Languages/ Simplified ASCII, Fluke 45 SCPI (IEEE-488.2), Agil=+ 34401A, Fluke 45 Modes SCPI (IEEE-488.2), Agil=+ 34401A, Fluke 45 General Stze (HxWXD) Size (HxWXD) 88 mm x 217 mm x 297 mm Safety Designed to comply with EN 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSA No. 1010.1-92 CAT I 1000 V, CAT II 600 V	Trendplot	No	Yes		
USB memory – – USB memory drive por Real time clock No No Yes Interfaces RS-232, USB with optional adapter RS 232, IEE-488.2, Ethernet, optional adapter Programming Languages/ Simplified ASCII, Fluke 45 SCPI (IEEE-488.2), Agil=1 adaptor General 3.6 kg Weight 2.1 kg 3.6 kg Size (HxWxD) 88 mm x 217 mm x 297 mm Safety Designed to comply with EN 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSA No. 1010.1-92 CAT I 1000 V, CAT II 600 V	Limit Test	Yes	Yes		
Real time clock No Yes Interfaces RS-232, USB with optional adapter RS 232, IEE-488.2, Ethernet, USB with optional adaptor Programming Languages/ Modes Simplified ASCII, Fluke 45 SCPI (IEEE-488.2), Agil=+: 34401 A, Fluke 45 General	Input output				
Interfaces RS-232, USB with optional adapter USB with optional adaptor Programming Languages/ Simplified ASCII, Fluke 45 Modes SCPI (IEEE-488.2), Agilent 34401A, Fluke 45 General C2.1 kg SCPI (IEEE-488.2), Agilent 34401A, Fluke 45 Weight 2.1 kg SCPI (IEEE-488.2), Agilent 34401A, Fluke 45 SCPI (IEEE-488.2), Agilent 34401A, Fluke 4	USB memory		-	USB memory drive por	
optional adapterUSB with optional adaptorProgramming Languages/ ModesSimplified ASCII, Fluke 45SCPI (IEEE-488.2), Agilent 34401A, Fluke 45GeneralWeight2.1 kgSCPI (IEEE-488.2), Agilent 34401A, Fluke 45Size (HxWxD)8 mm x 217 mm x 297 mmSafetyDesigned to comply with EN 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSADesigned 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		No	No		
Programming Languages/ ModesSimplified ASCII, Fluke 45SCPI (IEEE-488.2), Agilent 34401A, Fluke 45ModesSCPI (IEEE-488.2), Agilent 34401A, Fluke 45GeneralStep (HxWxD)Step (HxWxD)Size (HxWxD)Step (HxWxD)SafetyDesigned to comply with EN 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSADesigned 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		RS-232, USB with			
Modes Image: Modes General 3.6 kg Weight 2.1 kg 3.6 kg Size (HxWxD) 88 mm x 217 mm x 297 mm Safety Designed to comply with EN 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSA Designed to comply with IEC 61010-1 2000-1, No. 1010.1-92 CAT I 1000 V, CAT II 600 V			USB with optional adaptor		
General 3.6 kg Weight 2.1 kg 3.6 kg Size (HxWxD) 88 mm x 217 mm x 297 mm Safety Designed to comply with EN 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSA 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		Simplified ASCII, Fluke 45	SCPI (IEEE-488.2), Agile	nt 34401A, Fluke 45	
Weight 2.1 kg 3.6 kg Size (HxWxD) 88 mm x 217 mm x 297 mm Safety Designed to comply with EN 61010-1:2001, ANSI/ISA-S82.01-1994, CAN/CSA-C22.2 ANSI/ISA 61010-1 No. 1010.1-92 CAT I 1000 V, CAT II 600 V (S82.02.01):2004, ULL 61010-1:2004, CAN/CSA					
Size (HxWxD) 88 mm x 217 mm x 297 mm Safety Designed to comply with EN 61010-1:2001, ANSI/ISA 61010-1 (S82.02.01):2004, UL 61010-1:2004, CAN/CSA 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					
Safety Designed to comply with EN 61010-1:2001, ANSI/ISA 61010-1 Designed to comply with IEC 61010-1 2000-1, ANSI/ISA-S82.01-1994, CAN/CSA-C22.2 ANSI/ISA 61010-1 No. 1010.1-92 CAT I 1000 V, CAT II 600 V (S82.02.01):2004, UL 61010-1:2004, CAN/CSA				i kg	
with EN 61010-1:2001, ANSI/ISA 61010-1 ANSI/ISA-S82.01-1994, CAN/CSA-C22.2 ANSI/ISA 61010-1 No. 1010.1-92 CAT I 1000 V, CAT II 600 V (S82.02.01):2004, UL 61010-1:2004, CAN/CSA					
ANSI/ISA 61010-1 No. 1010.1-92 CAT I 1000 V, CAT II 600 V (S82.02.01):2004, UL 61010-1:2004, CAN/CSA	Safety		ANSI/ISA-S82.01-1994, CAN/CSA-C22.2		
(S82.02.01):2004, UL 61010-1:2004, CAN/CSA					
61010-1:2004, CAN/CSA			No. 1010.1-92 CAT I	1000 V, CAT II 600 V	
C22.2 No. 61010.1:2004					
	Warranty	C22.2 No. 61010.1:2004	and the second second		

FLUKE

Ordering Information

Models

8845A 6.5 digit precision multimeter, 35 ppm
8846A 6.5 digit precision multimeter, 24 ppm USB mem
8808A 5.5 digit multimeter, 0.01 %

Options and Accessories

8808A/8845A/8846A

TL910 Precision Electronic Probe Set 884X-SHORT 4-Wire Short TL2X4W-PT II 2x4 Wire Ohms Test Lead 2 mm Probe Tip 884X-USB USB to RS232 cable adapter FVF-UG FlukeView Forms Software Upgrade - No Cable Y8846S Rack Mount Kit, Single Y8846D Rack Mount Kit, Dual

8845A/8846A

884X-RTD 100 Ohm RTD Temperature Probe 884X-512M USB Memory 512 M 884X-1G USB Memory 1 GB Y8022 IEEE488 cable (2 m)

Fluke supports you by supplying information about Fluke tools and how to use them. Visit the Fluke web site at **www.fluke.eu** 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.®

Fluke Corporation

PO Box 9090, Everett, WA USA 98206

Fluke Europe B.V.

PO Box 1186, 5602 BD Eindhoven, The Netherlands

For more information call:

In the U.S.A.(800) 443-5853 or Fax (425) 446-5116 In Europe/M-East/Africa +31 (0) 40 2675 200 or Fax +31 (0) 40 2675 222 In Canada (800)-36-FLUKE or Fax (905) 890-6866 From other countries +1 (425) 446-5500 or Fax +1 (425) 446-5116 Web access: www.fluke.eu

©2007 Fluke Corporation. All rights reserved. Specifications subject to change without notice. Printed in The Netherlands 8/2007 2814536 B-EN-N Rev A ® Pub_ID: 11262-eng Rev 01

For more information, visit us at www.fluke.eu