FLUKE®

8845A/8846A Digital Multimeters accessory guide

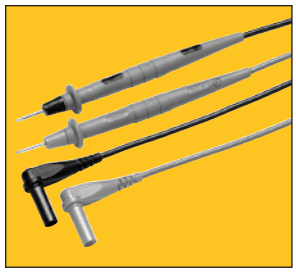
Technical Data

Introduction

The 8845A/8846A Digital Multimeters are complemented by a comprehensive range of accessories, all of which are designed to help you get the most from your multimeter. This data sheet explains in more detail the makeup of key accessories and offers technical specifications where required.

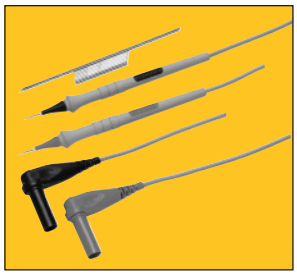
Test leads, probes, and probe tips

TL71 Premium Test Lead Set



- Included with 8845A and 8846A
- One pair (red, black) comfort grip probes with silicone insulated, right-angle test leads
- Probe tip size: 2 mm
- Recommended for µV measurements
- CAT IV 600 V, CAT III 1000 V, 10 A rating. UL listed.
- One-year warranty

TL910 Precision Electronic Probe Set



- Very small 1 mm tips to access hard-to-reach test points
- Probe tip length up to 100 mm, test lead length: 1 m
- Included : 3 sets of spring loaded gold tips and 2 sets of stainless steel tips
- CAT IV 600 V, CAT III 1000 V, 3 A rating
- One-year warranty

TL80A Basic Electronic DMM Test Set

- One pair (red, black) each 1 meter long silicone test lead set, alligator clip and probe tip extender
- Probe tip size: 2 mm
- C75 soft carrying case
- CAT II 300 V. UL listed.
- One-year warranty

8845A-TPIT Test Probe IC Tip Set

- One pair (red and black)
- Snaps onto DMM probes with .080 in (2 mm) O.D. Tips
- Designed to IEC 1010 standard
- Pin tip jack at the adapter end is recessed for added insulation protection
- Adapter allows easy access to leads of through-hole IC's
- Insulation at the tip fits between leads to prevent accidental shorting

Specifications

Materials	Tip: Stainless steel, nickel plated Body: Polypropylene, fire retardant, UL94 V-2 rated
Color	One red, one black
Safety	IEC 1010-2-031, Category II, P2 compliant
Operating voltage	300 V rms/dc
Current	3 A

Test leads, probes, and probe tips cont.

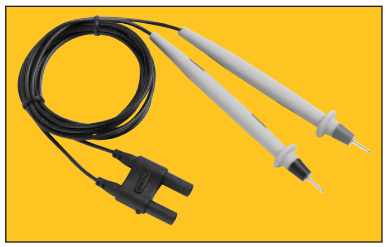
8845A-EFPT Fine Point Extended Test Probe Adapter Set

- One pair (red and black)
- Snaps onto DMM probes with .080 in (2 mm) O.D. Tips
- Designed to IEC 1010 standard
- Adapter allows access to hard-to-reach test points
- Tips are insulated to the point to prevent shorting of adjacent components

Specifications

Materials	Tip: Stainless steel Tip insulation: Kynar Body: Polypropylene, fire retardant, UL94 V-2 rated
Color	One red, one black
Safety	IEC 1010-2-031, Category II, P2 compliant
Operating voltage	300 V rms/dc
Current	3 A

TL2x4W-PT 2X4 Wire Ohms Test Lead

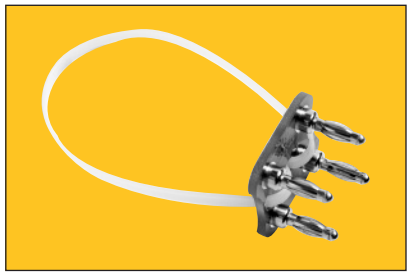


- Perform 4-wire measurements with only two test leads
- Two conductors per lead (one source and one measure)
- Excellent resolution and accuracy

Specifications

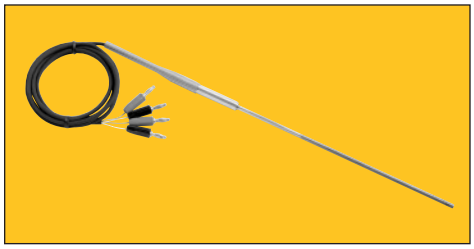
Maximum voltage between test lead and ground: 1000 V	
Maximum transient overvoltage and input voltage combined: 1000 V	
Maximum current: 500 mA	
Temperature	Operating: 0 to 55 °C < 90 % relative humidity Storage: -40° C to 170 °C
Altitude	2000 m
Safety	Complies with EN/IED 61010-031 and CAN/CSA C22.2 No. 61010-1-04 for Measurement Category 1 1000 V

4-wire short



- 4-terminal shorting bar
- 4 mm banana terminals sized and orientated to short DMM input source and sense terminals
- Used to null out front end offsets or as required by the calibration procedure

100 Ohm RTD Temperature Probe



- Manufactured using a coil suspension element design for increased shock and vibration resistance
- Mineral-insulated sheath with a minimum bend radius of 19 mm (3/4 in) for flexibility and durability

Specifications

Resistance	Nominal 100 Ω
Temperature coefficient	0.00385 Ω/Ω °C nominal
Temperature range	-200 °C to 300 °C (transition and cable temperature: 0 °C to 150 °C)
Drift rate	+ 0.13 °C at 0 °C after 1000 hours at 300 °C
Sheath material	316 stainless steel
Leads	Teflon™-insulated, nickel-plated stranded copper, 22 AWG
Termination	4-wire banana
Time constant	Four seconds maximum for 63.2 % response to step change in water moving at 3 fps
Bending radius	19 mm (3/4 in) except for 50 mm (2 in) area of sheath near tip
Calibration	Includes manufacturer's NIST-traceable calibration and table with R vs. T values in 1 °C increments from -196 °C to 300 °C. Callendar – van Dusen coefficients included
Immersion	At least 100 mm (4 in) recommended
Accuracy (includes calibration uncertainty and short-term stability)	± 0.050 °C at -196 °C ± 0.050 °C at 0 °C ± 0.051 °C at 200 °C ± 0.055 °C at 300 °C
Size	9 in L x 3/16 in diameter
Marking	Each RTD is marked with the Fluke name and part number

Memory

884X-512M 12 Mbyte memory

- Used on the 8846A only
- Plugs into USB device host port on the 8846A front panel
- Fully compliant with Universal Serial Bus Specification v2.0
- Dual LED indicates power and busy status

884X-1G USBMemory 1 GB

- Used on the 8846A only
- Plugs into USB device host port on the 8846A front panel
- Fully compliant with Universal Serial Bus Specification v2.0
- Dual LED indicates power and busy status

Interface cables

884X-USB USB to RS-232 Cable Adapter

- USB to serial RS-232 interface adapter cable
- Converts from standard DB 9-pin serial to USB 2.0
- Requires an available PC communications port
- 1.65 m cable length
- Includes cable and USB driver disk (CD-ROM)

884X-ETH Ethernet Interface Cable

- 8-conductor (4 twisted pair) unshielded cable (48 inches) with an 8-position modular plug (RJ45) on each end, with an overmold boot/strain relief
- Rated working voltage: 100 V rms max.
- Operating temperature range: -40 °C to + 80 °C

RS43 RS-232 cable

- RS43, 2 m
- DB9-to-DB9 for PC to unit

Y8021 and Y8022 IEEE-488 cables

- Shielded IEEE 488 one-meter (39.4 inches) and two-meter (78.8 inches) cables, with plug and jack at each end

Software

FlukeView Forms

- Document, store and analyze individual readings or series of measurements, then convert them into professional-looking documents
- FlukeView Forms Basic, included with 8845A/8846A, transfers data points from the meter to a PC, displays 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

Model Name	Description
FVF-SC5	**FlukeView Forms, Basic Software Includes:** • CD for FlukeView Forms Basic • Users manual, registration card, and software license agreement
FVF-UG	**FlukeView Forms, Software Upgrade – No Cable Includes:** • CD for FlukeView Forms Version 3.0 • Users manual, registration card, and software license agreement
FVF-SC4	**Extended FlukeView Forms with USB Cable Includes:** • CD for FlukeView Forms Version 3.0 • PC-to-meter serial-to-USB adapter cable • Users manual, registration card, and software license agreement

FlukeView Forms Requirements

Operating system for FVF-SC2 and FVF-Basic	Windows 98 Second Edition, Windows Me, Windows 2000, or Windows XP
Operating system for FVF-SC1 and FVF-SC3	Windows 95, Windows 98, Windows Me, Windows NT 4.0, Windows 2000, or Windows XP
Minimum PC Hardware	Pentium class or better microprocessor; 32 MB RAM; 70 MB hard disk space (100 MB to install); Serial or USB port

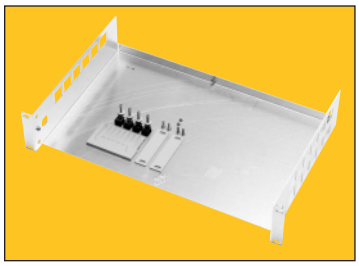
Other accessories

884x-CASE

- Tough molded plastic case with die cut foam to hold and protect the 8845A or 8846A meter
- Accessories and manual compartments
- One-year warranty

Rack Mount Kit

- Y8846S allows meter to be mounted in a standard 19-inch rack
- Y8846D enables mounting two meters side-by-side in a standard 19-inch rack



Parts list

Quantity		Description
Y8846S	**Y8846D**	
1	2	Small filler plate
1	NA	Large filler plate
1	NA	Large filler plate bracket
1	1	Rack mount tray
NA	1	Dual center mount
2	2	#8-32 x 1/2 in panhead Philips screws
1	2	#6-32 x 1/4 in panhead Philips screws
4	4	#10-32 x 3/4 in Philips rack screws
1	2	#6-32 x 1/2 in panhead Philips screws
4	4	#10-32 rack nuts

Calibration and Service

Traceable calibration with data
Traceable calibration without data
Accredited calibration
Repair services
Extended warranty agreements
Calibration and repair coverage services
Product upgrades

*Contact your local Fluke service center for details and availability

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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 40) 2 675 200 or
Fax (31 40) 2 675 222
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: http://www.fluke.com

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Тел: +7 (812) 336 43 04 (многоканальный)
Email: org@lifeelectronics.ru

www.lifeelectronics.ru