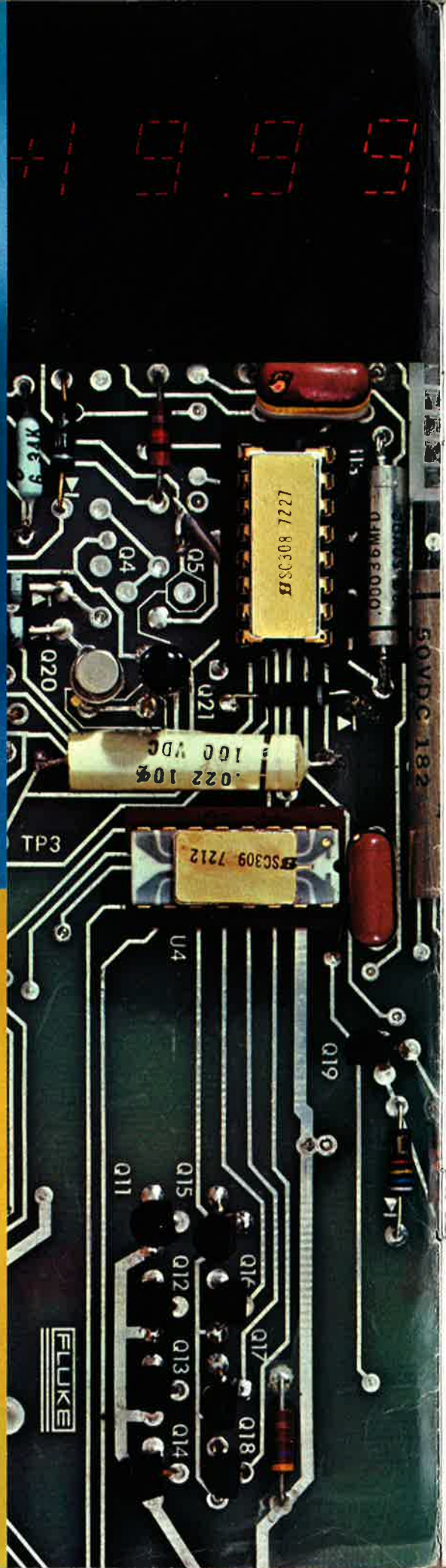
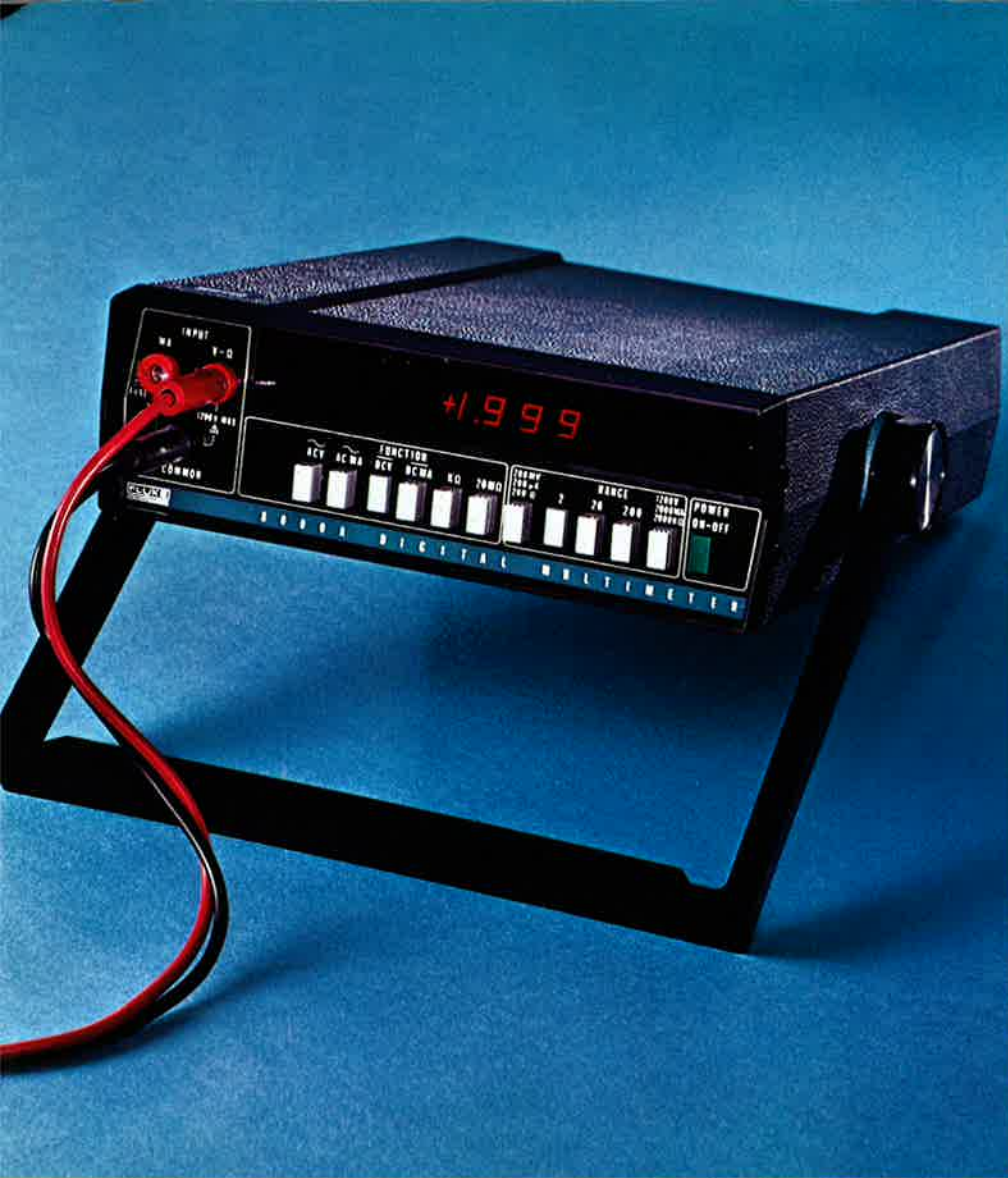


FLUKE

8000A

the complete 3½ digit multimeter





the new multimeter with more function power

Fluke's new DMM, Model 8000A, gives you more functions for your money. There are 26 different ranges, including five ranges of ac and dc voltage, five ranges of ac and dc current and six ranges of resistance. Pushbutton control gives you the most reliable, error free operation possible. The new self-zeroing circuit eliminates any possible offset uncertainty in the instrument.

Overload Protection

It takes a lot to overload the 8000A. For instance, you can put 1,000 volts on the millivolt range with no damage to the instrument. All current ranges are protected from overload with front-panel replaceable fuse.

Tough and light

The Fluke 8000A is a sturdy design that can withstand an 8 foot drop test and still come up working within specifications. The case is molded from a high impact plastic that will withstand the most severe handling. And because the 8000A weighs under three pounds (four pounds with batteries) it's the most portable multimeter you've ever used. When you receive it, you'll find it's a complete instrument, with test leads, spare fuses, and fully detailed manual. When you take it from the shipping carton, it's ready to use.

Plenty of options and accessories

Fluke offers you a wide choice of low cost options for the 8000A. Choose rechargeable battery power, digital printer output, 30 KV probe, high frequency probe, clamp-on probe for higher ac currents, a fitted soft vinyl case with compartments for accessories, front panel dust cover, or rack mounting kits.

The Fluke 8000A, built by a world leader in instrumentation

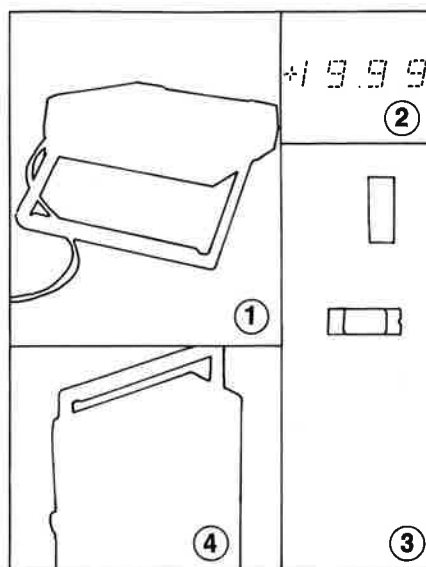
When you buy a Fluke 8000A, you can be sure of the same quality and the inherent performance characteristic of all Fluke products.

Your Fluke 8000A is a professional product designed to be the very best 3½ digit multimeter ever made. Compare the internal and external design quality to any other 3½ digital multimeter on the market.

The custom designed IC chips form the main circuitry of the 8000A. After intensive design effort, they were especially made for Fluke by one of the world's leading semiconductor companies. These circuits feature *both* analog and digital large scale integration (LSI), with more than 3,000 components integrated within one-eighth-inch square wafers for cost performance breakthroughs and improved reliability. They incorporate Fluke's unique self-zero feature, as well as digital determination of polarity. For the display, we use a light emitting diode readout with numbers styled for easy reading. And just like the most expensive Fluke multimeters, the 8000A uses single circuit-board construction for reliability and quick simplified service.

For the price, no better 3½ DMM

It all adds up. At this price, no other digital multimeter offers you 12 month guaranteed accuracy, foolproof operation, year-in, year-out reliability, and quick service. (48-hour turnaround service in U.S., Canada, Europe and Far East.)

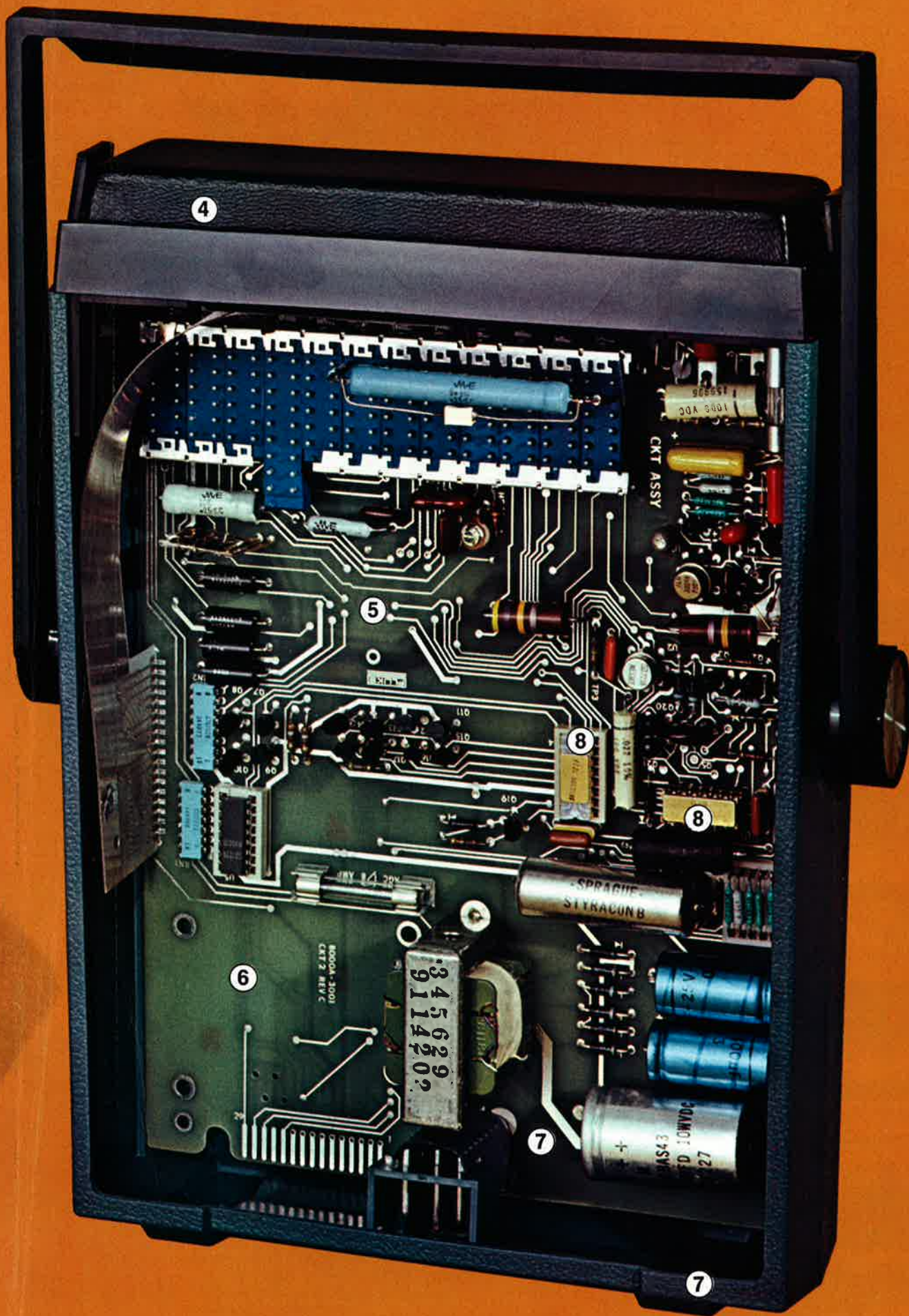


① Model 8000A with tilt-up handle and test leads ② 3½ digit readout ③ LSI chips ④ Carrying case

① The 8000A offers excellent overvoltage protection—you can accidentally apply 1200 V while measuring 100 microvolts without damage. All current measurements from 100 nanoamps up are protected to 2 amps with a convenient front-panel replaceable fuse (spare fuses are included so you have them if you need them!) ② A large, bright LED readout—with over twice the visibility of many competitive units. ③ Five full functions with a total of 26 ranges. Fluke offers you more **Function Power**. Optional probes extend the 8000A's measurement capability to 200 amps ac current, 30,000 volts dc, and 500 MHz response on ac volts. ④ Front panel dust cover option helps protect the instrument during rough field use. ⑤ Single circuit-board construction gives you convenient access to

all parts and improves reliability over multi-board designs. ⑥ The rechargeable battery pack option goes here to provide over 8 hours of fully portable operation. Or you can choose the digital printer output option for datalogging and systems applications. ⑦ The 8000A's sturdy case and internal design give you a multimeter that can take the shock and drops of rough field use and still come up working within specifications. ⑧ These two Fluke L.S.I. integrated circuits contain over 3,000 microminiaturized electrical components. As a result of our advanced technology, the 8000A has far fewer parts in it than any competitive DMM. **The advantages to you:** More performance for your money, outstanding reliability, and simplified calibration and maintenance.





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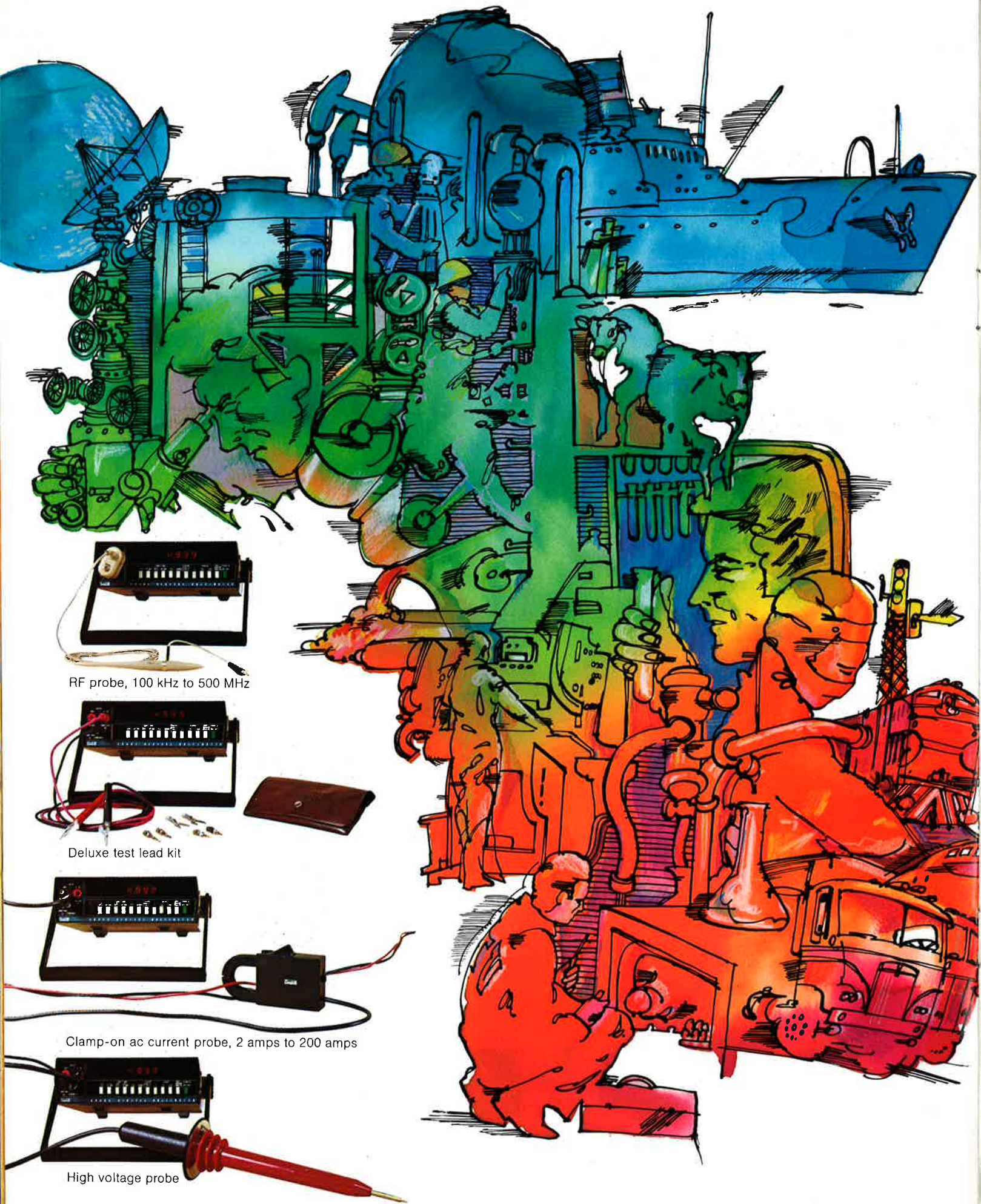
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RF probe, 100 kHz to 500 MHz

Deluxe test lead kit

Clamp-on ac current probe, 2 amps to 200 amps

High voltage probe

specifications

DC VOLTAGE

Ranges	± 199.9 mV, ± 1.999 V, ± 19.99 V, ± 199.9 V, ± 1199 V $\pm (0.1\%$ of reading + 1 digit)
Accuracy (1 year, 15°C to 35°C)	
Input Impedance	10 M Ω , all ranges
Normal Mode Rejection	Greater than 60 dB @ 50 Hz, 60 Hz
Common Mode Rejection (1 k Ω unbalance)	Greater than 120 dB @ dc and 50 Hz, 60 Hz
Response Time	1/2 second
Maximum Input Voltage	1200 V rms, all ranges

AC VOLTAGE

Ranges	199.9 mV, 1.999 V, 19.99 V, 199.9 V, 1199 V
Accuracy (1 year, 15°C to 35°C)	45 Hz to 10 kHz $\pm (0.5\%$ + 2 digits) 10 kHz to 20 kHz $\pm (1\%$ + 2 digits)
Input Impedance	10 M Ω in parallel with 100 pF
Common Mode Rejection (1 k Ω unbalance)	Greater than 60 dB @ 50 Hz, 60 Hz
Response Time	3 seconds, worst case
Maximum Input Voltage	1200 V rms, not to exceed 10 ⁷ volt·Hz product on 20, 200, 1200 V ranges. 500 V rms on 200 mV and 2 V ranges.

DC CURRENT

Ranges	± 199.9 μ A, ± 1.999 mA, ± 19.99 mA, ± 199.9 mA, ± 1999 mA $\pm (0.3\%$ of reading + 1 digit)
Accuracy (1 year, 15°C to 35°C)	
Voltage Burden	0.22V maximum up to 20 na/45V at 2 amps
Response Time	1/2 second
Maximum Input	2 amps rms (fuse protected)

AC CURRENT

Ranges	199.9 μ A, 1.999 mA, 19.99 mA, 199.9 mA, 1999 mA
Accuracy (1 year, 15°C to 35°C)	45 Hz to 10 kHz $\pm (1\%$ of reading + 2 digits) except 2000 mA range: 45 Hz to 3 kHz $\pm (1\%$ of reading + 2 digits)
Voltage Burden	0.22V maximum up to 20 na/45V at 2 amps
Response Time	3 seconds, worst case
Maximum Input	2 amps rms (fuse protected)

RESISTANCE

Ranges	199.9 Ω , 1.999 k Ω , 19.99 k Ω , 199.9 k Ω , 1999 k Ω , 19.99 M Ω
Accuracy (1 year, 15°C to 35°C)	$\pm (0.2\%$ of reading + 1 digit) all ranges except: $\pm (0.5\%$ of reading + 1 digit) on 20 M Ω range
Response Time	1/2 second, all ranges except: 4 seconds on 20 M Ω range
Current through Unknown	200 Ω range, 1 mA 2 k Ω range, 1 mA 20 k Ω range, 100 μ A 200 k Ω range, 1 μ A 2000 k Ω range, 1 μ A 20 M Ω range, 0.1 μ A
Maximum Input Voltage	200 Ω and 2 k Ω ranges, 130 V rms 20 k Ω through 20 M Ω ranges, 250 V rms

GENERAL

Max. Common Mode Voltage	1200 V peak
Operating Temp. Range	-10°C to +55°C
Storage Temp. Range	-40°C to +75°C (-40°C to +60°C with batteries)
Humidity Range	0 to 80% RH
Display	7-segment LED, 0.25" character height
Size	8 1/2" wide x 2 1/2" high x 10" deep (22 cm x 6 cm x 25 cm)
Weight	2 3/4 pounds (1, 2 kilograms) without batteries 4 pounds (1, 8 kilograms) with batteries
Power	100-115-230 V ac, 50 to 400 Hz, 2 watts
Battery Option (-01)	8 hour minimum operation on internal rechargeable batteries

OPTIONS

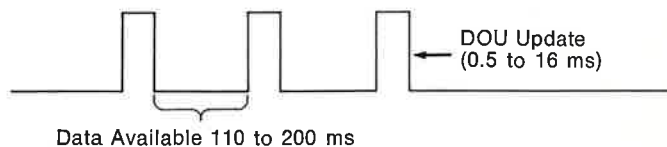
Rechargeable Battery Pack (8000A-01)

The rechargeable battery pack is entirely self-contained within the 8000A package. It is supplied with standard "D" sized nickel-cadmium batteries which provide, under normal conditions, 300 to 500 discharge-charge cycles of operation. The battery pack will provide a minimum of eight hours operation, with recharge requiring less than 14 hours. Recharging is automatic whenever unit is plugged in and does not affect normal bench operation.

Digital Printer Output (8000A-02)

The data output option provides parallel, buffered BCD data on the digital readout, polarity and overload. It is suitable for driving a digital printer or providing input to systems. The non-isolated buffered output will sink up to 10mA of current and has a 15Kohm pull-up resistor.

A "Busy" signal is "one" while the DOU output is being updated to the last measurement. This update requires from 0.5 to 16 ms depending on the reading. The data output is available from 110 to 200 ms between busy signals. A single update-readout cycle can be triggered externally.



One update cycle with continuous output availability occurs after external "date update" command.

ACCESSORIES

Deluxe Test Lead Kit (A80)

Universal test leads having two color coded leads with insulated, threaded adapters on each end suitable for attachment of the following adapters: 1. Banana Plugs, 2. Pin Tips, 3. Test Prod Tips, 4. Alligator Clips, 5. Binding Post Lugs.

High Voltage Probe (80K-30)

Voltage Range, 1 kV-30 kV	Operating Temp. Range, 0-50°C
Input Resistance, 1000 M Ω	Humidity Range, 0-80% RH
Division Ratio, 1000:1	Cable Length, 5' (1.5 meters)
Ratio Accuracy, $\pm 1.0\%$ @ 25 kV	

Note:

- (1) Calibrated for 10 M Ω voltmeter input resistance.
- (2) The overall accuracy specification from 20 kV to 30 kV is $\pm 2\%$; this includes the total effects of ratio accuracy, voltage coefficient, temperature coefficient, long-term stability, power coefficient, and 8000A multimeter accuracy.

RF Probe (80RF)

Input Voltage Range:	0.25 to 30 V
Response:	Peak response calibrated to read rms value of sine wave.
Accuracy:	100 kHz-100 MHz 100 MHz-500 MHz
+10°C to +30°C	$\pm 5\%$ $\pm 7\%$
-10°C to +40°C	$\pm 7\%$ $\pm 15\%$
$< \pm 3$ dB at 10 kHz	

Input Z	4 M Ω shunted by 2 ± 0.5 pF
Maximum Input V	30 V rms ac, 200 V dc
Cable Connection	Shielded dual banana plugs on 3/4 inch centers. Cable length 4 feet (1.2 meters) minimum.
Accessories	Ground lead, straight tip, hook tip, high frequency adapter.

Clamp on AC Current Probe (801-600)

Ranges, 2 to 600 amps, accuracy $\pm 3\%$ 60 to 400 Hz (2" opening)

Carrying Case (C80)

Fitted soft vinyl case, with carrying strap and storage compartment for test leads, power cord and other compact accessories.

Front Panel Dust Cover (M00-100-714)

Snap-on dust cover provides protection for front panel and controls.

Rack Mount Kits (M00-200-611/612)

Three rack mount kits provide full width (19 inch E.I.A. standard) panel mounts 3 1/2 inches high. The -611 provides right or left offset mounting of the 8000A, the -612 is a center mount unit and the -613 mounts two units side by side.

a simple guarantee you can believe

Fluke guarantees that any model of the 8000A will meet the specifications published herein throughout one full year from the date you receive it. Further, any part which fails during that time will be replaced and the instrument recalibrated without charge.

sales and service

Throughout the United States, Canada, Europe and Far East immediate delivery of the 8000A comes from over 50 different locations. (If your 8000A should fail, you are guaranteed a 48-hour turnaround from over 30 different locations.)

For your convenience, the city and phone number of your nearest Fluke office are listed below.

FOR U. S. AND CANADA:

Albuquerque, NM (505) 299-7658
Atlanta, GA (404) 874-9925
Boston, MA (617) 861-8620
Chicago, IL (312) 298-3600
Cleveland, OH (216) 267-0445
Dallas, TX (214) 231-2573
Dayton, OH (513) 434-7500
Denver, CO (303) 934-5505
Detroit, MI (313) 892-2500
Glastonbury, CT (203) 633-0777
Greensboro, NC (919) 273-1918
Honolulu, HI (808) 533-6095
Houston, TX (713) 621-0040
Huntsville, AL (205) 881-6220
Indianapolis, IN (317) 244-2456
Los Angeles, CA (213) 245-9404
Minneapolis, MN (612) 884-4336
Orlando, FL (305) 896-4881
Philadelphia, PA (215) 248-5050
Pittsburgh, PA (412) 892-2953
Pleasantville, NY (914) 769-1811
Phoenix, AZ (602) 947-7841
Rochester, NY (716) 266-1400
San Diego, CA (714) 565-2555
Santa Clara, CA (408) 244-1505
Seattle, WA (206) 774-2211
St. Louis, MO (314) 423-1234
Union, NJ (201) 687-8737
Washington, D. C. (301) 881-5300
Williamsburg, VA (703) 245-1786
Montreal, P.Q. (514) 670-1212
Ottawa, ONT (613) 725-3354
Toronto, ONT (416) 678-1500
Vancouver, BC (604) 253-7136
Calgary, ALTA (613) 725-3354

FOR INTERNATIONAL:

ARGENTINA
Coasin S.A. 523185
Buenos Aires, Argentina

AUSTRIA
Kontrol GmbH & Co. KG 420202
Vienna, Austria

AUSTRALIA
Elmeasco Instruments Pty Ltd. . . 939-7944
Brookvale, Australia

BELGIUM
C. N. Rood S.A. 352135
Brussels, Belgium

BRAZIL
Ambriex S.A. 264-7406
Rio de Janeiro, Brazil

CARIBBEAN
West Indies Sales Co. . . . (809) 723-3743
San Juan, Puerto Rico

CHILE
Coasin Chile Ltd. 396713
Santiago, Chile

CHINA, Peoples Republic of
May Lee Industries (212) 532-9200
New York, New York

COLOMBIA
Marones, Ltda. 36 47 31
Bogota, Colombia

DENMARK
Tage Olsen A/S 294800
Copenhagen, Denmark

ECUADOR
Proteco Coasin Cia, Ltd. 526759
Quito, Ecuador

EASTERN EUROPE
Kontrol GmbH & Co. KG 420202
Vienna, Austria

FINLAND
Oy Findip AB 717799
Helsinki, Finland

FRANCE
M. B. Electronique 772-3108
Suresnes, France

WEST GERMANY
Fey Elektronische Messgeräte . . 184041
München, West Germany

GREECE
Marios Dalleggio
Representations 710.669
Athens, Greece

HONG KONG & MACAU
Gilman & Co., Ltd. 227011
Hong Kong

INDIA
Hinditron Services Pvt. Ltd. 365344
Bombay, India

IRAN
Berkeh Company Ltd. 628294
Tehran, Iran

ISRAEL
R. D. T. Electronics
Engineering Ltd. 266181
Tel Aviv, Israel

ITALY
Sistrel S.P.A. 500-1860
Rome, Italy

JAPAN
Toyo Trading Company, Ltd. . . 279-0771
Tokyo, Japan

KOREA
Asia Science & Co. 24-1431
Seoul, Korea

MALAYSIA
O'Connor's (PTE) Ltd.
Petaling Jaya, West Malaysia

MEXICO
Mexitek, S.A. 536-0910
Mexico, D.F., Mexico

NETHERLANDS
C. N. Rood N.V. 996360
Rijswijk, Netherlands

NEW ZEALAND
David J. Reid (N.Z.) Ltd.
Auckland, New Zealand

NIGERIA
Deemtee Electrontechnics Ltd.
Lagos, Nigeria

NORWAY
Morgenstjerne & Co. A/S 372940
Oslo, Norway

PAKISTAN
Pak International Operations
Karachi, Pakistan

PERU
Importaciones Y Representaciones
Electronicas S.A. 27-2078
Lima, Peru

PORTUGAL
Equipamentos De
Laboratorio, Ltda 535051
Lisbon, Portugal

SINGAPORE
O'Connor's (PTE) Ltd. 637944
Singapore, Singapore

SOUTH AFRICA
K. Baker Associates Pty. Ltd. . . 42-1939
Johannesburg, Republic of South Africa

SPAIN
Ataio Ingenieros S.A. 2153543
Madrid, Spain

SWEDEN
Teleinstrument AB 870345
Vallingby, Sweden

SWITZERLAND
Kontron Electronic AG 628282
Zürich, Switzerland

TAIWAN
Heighten Trading Company, Ltd. . 518324
Taipei, Taiwan, Republic of China

THAILAND
G. Simon Radio Ltd. 30991-3
Bangkok, Thailand

UNITED KINGDOM
Fluke International Corporation . . 33066
Watford, England

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Montevideo, Uruguay

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