

Simpson

WORLD'S LARGEST MFR. OF ELECTRONIC TEST EQUIPMENT

TEST EQUIPMENT

for servicing television
and radio - industrial equipment - heating
and cooling equipment - appliances



WEISCHLER ELECTRIC CO.
4250 W. 130th ST.
CLEVELAND, OH.
Circuit Breaker 1-4000

Simpson MULTI-TESTERS

THE WORLD'S MOST WIDELY USED TESTER

Simpson FAMOUS MODEL 260*

AC-DC VOLT-OHM-MILLIAMMETER • Over Half a Million Now in Use!

Model 260 is so dependable, so handy, so sensibly priced. You'll find it wherever quick, accurate electrical checks are needed . . . 29 Ranges . . . 20,000 Ohms per Volt DC . . . 1,000 Ohms per Volt AC.

VOLTS, AC and DC: 2.5, 10, 50, 250, 1000, 5000.

VOLTS, OUTPUT: 2.5, 10, 50, 250.

DECIBELS: -12 to +55 DB in 5 ranges.

CURRENT, DC: 100 ua; 10, 100, 500 ma; 10 a.

OHMS: 0-2K (12 ohms center), 0-200K (1200 ohms center), 0-20 meg. (120K center).

Size: 5¼" x 7" x 3½" . . . Weight: 3½ lbs. Shpg. wt. 6 lbs.

Accessory Probes and Carrying Cases listed on Page 5.

Model 260 complete with test leads and Operator's Manual..

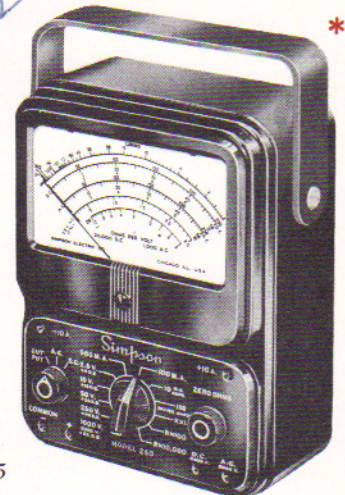
\$43⁹⁵



MODEL 260RT
(in roll top
Safety case)
\$49.95



MODEL 260
Ever-Ready
Carrying Case
No. 4236 . . . \$9.75



DELUXE MODEL 262*

AC-DC VOLT-OHM-MILLIAMMETER

20,000 OHMS PER VOLT

33 Ranges on Big 7" Scale

This compact instrument is made possible by the Simpson Self Shielded Core Magnet Meter Movement.



DC VOLTS: 1.6, 8, 40, 160, 400, 1600, 4000 . . . 20,000 ohms per volt.

AC VOLTS: 3, 8, 40, 160, 800 . . . 5,000 ohms per volt.

AF OUTPUT VOLTAGE: 3, 8, 40, 160 volts.

VOLUME LEVEL IN DECIBELS: -12 to +45.5 DB in 4 ranges.

DC RESISTANCE: 0-500 ohms (4.5 center); 0-5K ohms (45 ohms center); 0-50K ohms (450 ohms center); 0-500K ohms (4,500 ohms center); 5 megohms (45K ohms center); 0-50 megohms (450K ohms center).

DC CURRENT: 80, 160 ua; 1.6, 16, 160 ma; 1.6, 16 a.

Size: 7½/16" x 6" x 2½/16". Weight: 4 lbs. Shpg. wt. 6 lbs.

Accessories: See page 5.

Model 262 with leads and Operator's Manual..

\$59⁵⁰

100,000 OHMS PER VOLT!

MODEL 269*

AC-DC VOLT-OHM-MICROAMMETER

Self Shielded Movement

Can replace VTVM's for many voltage and resistance checks.

DC VOLTS: 1.6, 8, 40, 160, 400, 1600, 4000 . . . 100,000 ohms per volt.

AC VOLTS: 3, 8, 40, 160, 800 . . . 5,000 ohms per volt.

AF OUTPUT VOLTAGE: 3, 8, 40, 160 volts.

VOLUME LEVEL IN DECIBELS: -12 to +45.5 DB in 4 ranges.

DC RESISTANCE: 0-2K ohms (18 ohms center); 0-20K ohms (180 ohms center); 0-200K ohms (1800 ohms center); 0-2 megohms (18K ohms center); 0-20 megohms (180K ohms center); 0-200 megohms (1.8 megohms center).

DC CURRENT: 0-16, 0-160 ua; 0-1.6, 0-16, 0-160 ma; 0-1.6, 0-16 a.

Size: 7½/16" x 6" x 2½/16". Weight: 4 lbs. Shpg. wt. 6 lbs.

Accessories: See page 5.

Model 269 with leads and Operator's Manual..

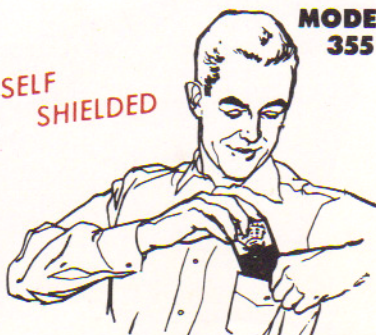
\$88⁰⁰



Simpson MIDGETESTER

MODEL 355

SELF SHIELDED



AC-DC VOLT-OHMMETER

SELF SHIELDED!

Fits in Your Shirt Pocket!

10,000 Ohms

per Volt AC and DC!



World's smallest! Ideal for appliance repair, radio-TV service, etc. Utilizes the rugged Core Magnet Meter Movement.

DC VOLTAGE: 3, 12, 60, 300, 1200.

AC VOLTAGE: 3, 12, 60, 300, 1200.

DC RESISTANCES: 0-10K ohms (120 ohms center); 0-100K ohms (1200 ohms center); 0-1 megohm (12K ohms center); 0-10 megohms (120K ohms center).

Size: 2¾" wide, 4½" high, and 1" thick.

Weight, 7 oz.

Model 355 with Leads, Operator's Manual

Leather Zipper Case #6355 \$2.95

\$34⁹⁵



*ADJUST-A-VUE HANDLE—Exclusive Simpson feature. Adjusts instrument at convenient viewing angle on work bench.

Simpson MICROTTESTERS

FOR GENERAL PURPOSE TESTING

MODEL 240

AC-DC VOLT-OHM-MILLIAMMETER

Designed for radio testing... 1000 ohms per volt, AC and DC.

AC VOLTS: 15, 150, 750, 3000.

DC VOLTS: 15, 75, 300, 750, 3000.

DC MILLIAMPERES: 15, 150, 750.

OHMS: 0-3000 (center scale 30);

0-300,000 (center scale 3000). Model 240 Leads

and Manual..... \$28⁹⁵



MODEL 230

AC-DC VOLT-OHM-MILLIAMMETER

Model 230 is ideal for many industrial test needs.

AC VOLTS: 10, 250, 1000 (400 ohms per volt).

DC VOLTS: 10, 50, 250, 1000 (1,000 ohms per volt).

DC MILLIAMPERES: 10, 50, 250.

OHMS: 0-1000, 0-100,000.

Model 230 with Leads and Manual.....

\$27⁹⁵



Simpson

OHMMETER

MODEL 372

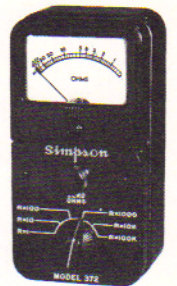
Features wide range of measurements from 0.2 ohm to 50 meg-

ohms in 6 ranges. Center scale values:

5 ohms, 50 ohms, 500 ohms, 5000 ohms,

50,000 ohms, and 500,000 ohms.

Model 372 with leads and Operator's Manual..... \$27⁹⁵



NEW!

LOW-OHM-METER

MODEL 362



RANGES: 0-5 ohms and 0-25 ohms.

The two ranges of the Low-Ohm-Meter permit highly accurate readings between 0.1 and 25 ohms. This is ideal for checking motor armatures and fields; switch and relay contact resistances; shorts between generator windings and grounds; shorts in TV and radio chassis wiring; electrical equipment in industrial plants; plus many other uses. Accuracy is within 3% of full scale value.

Model 362 with calibrated test leads..... \$24⁹⁵



MODEL 303*

VACUUM TUBE VOLT-OHMMETER

Easy-to-Read 4 1/2" Scale

... Unusually Versatile

OTHER Simpson MICROTTESTERS

(Size 3" x 5 1/2" x 2 1/2". Shipping Weight 3 lbs.)

AC AMMETER, Model 370: 0-1, 0-2.5, 0-5, 0-10, 0-25 amps..... \$21.95

AC VOLTMETER, Model 371: 0-150, 0-300, 0-600 volts..... 19.95

DC MILLIAMMETER, Model 373: 0-1, 5, 10, 25, 50, 100, 250, 1000 ma..... 19.95

DC MICROAMMETER, Model 374: 0-50, 100, 250, 500, 1000 ua..... 23.00

DC AMMETER, Model 375: 0-1, 2.5, 5, 10, 25 amps. 19.95

AC VOLTMETER (Rec. Type—1000 ohms per volt), Model 376: 0-5, 10, 25, 50, 100, 250, 1000 AC volts 19.95

DC VOLTMETER (Res. 1000 ohms per volt), Model 377: 0-1, 2.5, 5, 10, 25, 50, 100, 250, 500, 1000 DC volts..... 19.95

AC MILLIAMMETER (Self contained transformer), Model 378: 0-5, 25, 100, 250, 1000 ma..... 23.95

BATTERY TESTER, Model 379: (Separate arcs for Radio A Batteries, Hearing-Aid A Batteries, and for all B Batteries)—with Leads and Operator's Manual..... 24.95

Use it as an electronic DC voltmeter, ohmmeter, AC or AF voltmeter, RF voltmeter (with accessory probe), output-meter, and other applications.

DC VOLTAGE: Ranges—1.2, 12, 60, 300, 1200.

OHMS: Ranges—1K ohms (10 ohms center); 100K ohms (1000 ohms center); 1 megohm (10K ohms center); 10 megohms (100K ohms center); 1000 megohms (10 megohms center).

AC VOLTAGE: Ranges—1.2, 12, 60, 300, 1200.

AF VOLTAGE: Ranges—1.2, 12, 60.

DECIBELS: -20 to +63 DB in 5 ranges.

R.F. VOLTAGE: Range—20 volts maximum. Frequency Flat 20 Kc to 100 Mc.

Line Voltage: 105-125V, 50/60 Cycles.

Accessory Probes and Carrying Case are listed on page 5 of this bulletin.

Model 303 with DCV Probe, ACV-Ohms Probe, Ground Lead, Operator's Manual..... \$68⁰⁰

Model 303-RT (in Roll-Top Safety Case)..... \$76⁰⁰

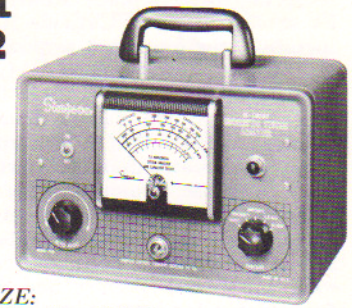


*ADJUST-A-VUE HANDLE—Exclusive Simpson feature. Adjusts instrument at convenient viewing angle on work bench.

NEW!
FOR TV SERVICING

IN-CIRCUIT HORIZONTAL SYSTEM ANALYZER

MODEL 382



- saves time in running checks on TV horizontal deflection systems
- tests capacitors, too!

SIZE:
7¼" x 8" x 11⅜"

Model 382 is the world's most complete "testing package" for analyzing TV horizontal deflection systems. With this *one* instrument, you can:

- (1) Check any winding in the horizontal system (transformer or yoke) for *shorts* and *opens*. Even one shorted turn is clearly indicated on a large 4½" meter. Uses reliable, time-proven Q-type test.
- (2) Check flyback and yoke system **IN-CIRCUIT** (disconnect only plate cap of output tube). High-Q systems are checked on a quick-reading, Good-Bad scale (most present day sets use the High-Q system); low-Q systems on comparative logging scale.

- (3) Measure capacitance value (and check for open capacitors)—direct-reading scales indicate from 10 mmf to 0.1 mfd—no bridge to balance. Measures capacitance to better than 10%.
- (4) Make continuity checks of any wire-wound component, such as width coils, linearity coils, oscillator transformers; check capacitors for direct shorts; check out wiring harnesses, switch contacts, etc. Can check many other components for Q, either directly or by logging scale.

Model 382 with special test cable and Operator's Manual..... **\$69⁹⁵**

WORLD'S FIRST IN-CIRCUIT CAPACITOR LEAKAGE TESTER



CAPACOHMETER
Model 383A

The "Capacohmeter" combines in "one package" the flexibility to: (a) Measure leakage of defective paper, mica, or ceramic capacitors in ohms; (b) indicate directly the capacitance of good paper, mica, or ceramic capacitors over a range of 10.0 micromicrofarads to 10.0 microfarads; (c) detects many marginal capacitors by means of a pulse technique. All tests are read directly on a 4½" instrument. No adjusting of a bridge circuit and balancing controls. All measurements made under load conditions. Borderline capacitors which cause costly "call backs" are immediately "knocked out" with the "pulse test". Many tests are made right "in circuit".

Model 383A complete with test leads and Operator's Manual..... **\$89⁹⁵**

VARIDOT GENERATOR Model 434



Lets You Adjust the Number and Size of Dots to Your Own Liking

The Simpson Model 434 provides white dot patterns with variable dot size (from 1 to 8 scanning lines, with corresponding dot widths), and variable dot number, from 6 to 12 horizontal dots, and 6 to 14 vertical dots.

Horizontal and vertical sync pulses are provided, with adjustable vertical sync which can be operated at line frequency or off line frequency. This also operates as a hum-check control.

Modulated r-f output is available, operating on fundamentals from Channel 2 to Channel 6. Positive or negative video output is also available. Line Voltage: 117 Volts, 50-60 cycles, 45 watts.

Model 434 complete with operating instructions..... **\$147⁵⁰**

TV-FM SIGNAL GENERATOR †

MODEL 479



MARKER GENERATOR FREQUENCIES: Fundamental and second harmonic. Band A, 3.3 to 15.6 megacycles; Band B, 15 to 76 megacycles; Band C, 75 to 250 megacycles.

F.M. GENERATOR FREQUENCIES: Band A, 2 to 120 megacycles; Band B, 140 to 260 megacycles. (Dial marked for harmonic use for UHF.) Sweep rate 60 cycles (Line Frequency).

Size: 17" x 14" x 7½". Weight: 29 lbs. Shipping wt. 35 lbs. Power: 50 watts, 105-125 volts, AC only.

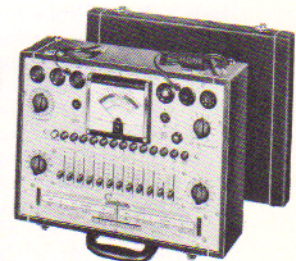
Note! Specify: 50 or 60 cycles.

Accessories: Listed on page 5 of this bulletin.

Model 479 including 2 Oscilloscope Cables, 1 Impedance Matching Output Cable, 1 Signal Input Cable, Operator's Manual and UHF Instructions..... **\$325⁰⁰**

†For quick conversion of Model 479 to color, see Chromatic Probe and Chromatic Amplifier under Accessories.

PLATE CONDUCTANCE TUBE TESTER MODEL 1000



Extra Lo-Volt Leakage Test Will Not Damage Any Tube!

Model 1000 is ideal for radio-TV and industrial control servicing. Tests any receiving tube, including 9 pin miniatures and sub-miniatures with base arrangements in a line or circle. The Simpson plate conductance method makes testing simpler . . . more positive . . . more accurate. Multi-position toggle switches provide quick adjustment.

Snap-Out-Snap-In transparent plastic windows are provided over the roll chart . . . add new tube data at any time.

Line Voltage: 105-125 Volts, 50-60 cycle.

Size: 15¾" x 11¼" x 6".

Weight: 15 lbs. Shpg. wt. 19 lbs.

Model 1000 complete with Operator's Manual..... **\$135⁰⁰**

7" Simpson COLORSCOPE MODEL 458

Seven big features make Model 458 the ideal scope for color TV servicing: (1) 7" Cathode Ray Tube; (2) On wide band operation, the frequency response is flat within 1.5 db to 4.5 Mc. Will faithfully display COLOR BURST frequency with a sensitivity greater than 30 Mv rms per inch of vertical deflection; (3) On narrow band operation, the frequency response is flat within 3 db from 10 cycles to 300 Kc with a sensitivity greater than 10 Mv rms per inch; (4) Good square wave response provides accurate representation of sync pulses and composite wave-form pattern for trouble-shooting video, sync, and sweep circuits; (5) Horizontal Sweep, to 200 Kc, for expansion of high frequency wave-form detail and color burst; (6) Vernier and Compensated Decimal Step Attenuator for better signal controls and (7) Provision for Intensity Modulation of CRT.

Size: 11 x 16½ x 14½ High. **Weight:** 29 lbs.



Model 458
complete with
Operator's Manual

\$229⁹⁵

Scope Calibrator Model 276 adapts your scope for voltage measurements.

RMS: .36, .9, 3.6, 9, 36, 90.
PEAK: .50, 1.25, 5, 12.5, 50, 125.
PEAK to PEAK: 1.0, 2.50, 10, 25, 100, 250.
POWER: 105-125V. 50-60 Cycles.

Model 276 with Operator's Manual..... **\$29⁵⁰**

FIELD STRENGTH METER PORTABLE MULTI-POWER

This newest practical Simpson field strength meter provides means for the measurement of television signals in any locality. It answers the need of service technicians for a combination **power line** or **battery operated** field strength meter that is self-charging.

Model 498 covers all channels, UHF and VHF. Measures relative field strength from approximately 50 microvolts to .5 volts. Excellent for fringe areas. Also useful as a tuner substitute when servicing TV. Continuously variable sensitivity. Operates from any one of four sources: (1) 117 V AC line; (2) Self-contained storage battery*; (3) Your automobile battery; and (4) Your external battery.

*Internal storage battery can be recharged by self-contained charger or from your automobile battery while traveling between jobs.



MODEL 498

**Operate It Anywhere
Covers All Channels**

Size: 8" x 11" x 8½". **Weight:** 11½ lbs. Shpg. wt. 15 lbs.

Model 498 117 A.C.V. and 6.3 D.C.V.,
shoulder strap, less battery..... **\$155⁵⁰**

No. 5721 Storage battery, 12 ampere hour capacity..... **\$9⁵⁰**

ACCESSORIES



NEW! CHROMATIC AMPLIFIER and CHROMATIC PROBE (For 479 and 480)

In just 15 seconds—you can convert your Simpson Model 480 Genescope or Model 479 TV-FM Signal Generator for servicing color TV with these two new Simpson accessories. No internal changes or connections are necessary.

CHROMATIC AMPLIFIER, Model 406, complete with instructions..... **\$31.95**
CHROMATIC PROBE, No. 0186, complete with instructions..... **9.95**

Model 406.

PROBES

High-Voltage Probe for 221 (30,000 V).....	No. 0009	\$ 9.95
High Voltage Probe for 260 (25,000 V).....	No. 0007	9.95
High Voltage Probe for 260 (50,000 V).....	No. 0179	12.50
High Voltage Probe for 262 (16,000 V).....	No. 0172	11.50
High Voltage Probe for 262 (40,000 V).....	No. 0180	12.50
High Voltage Probe for 269 (16,000 V).....	No. 0173	11.50
High Voltage Probe for 269 (40,000 V).....	No. 0181	12.50
High Voltage Probe for 303 (30,000 V).....	No. 0074	9.95
High Frequency Probe for Model 303.....	No. 0073	7.50
AC Probe for Model 303.....	No. 0068	3.00
DC Probe for Model 303.....	No. 0067	3.50
Ground Lead for Model 303.....	No. 8369	1.00
High Frequency Crystal Probe and Cable for 479 and 480.....	No. 0185	7.50
Output Cable, 45 Mc, for 479 and 480.....	No. 0046	4.25
Voltage Doubler Probe.....	No. 0740	\$10.95

PROBES (Cont.)

Low Capacitance Probe.....	No. 0741	9.95
100:1 Voltage Divider Probe.....	No. 0742	9.95
Direct-Resistive Dual Purpose Probe.....	No. 0743	9.95
General Purpose Thermocouple Probe for 388, 388-3L.....	No. 0190	4.95
Surface Temperature Thermocouple Probe for 388, 388-3L.....	No. 0187	6.95

LEADS

Test Prods and Elbow Terminals.....	No. 8381	\$ 1.25
Test Prods and Spade Terminals.....	No. 8379	1.25
Alligator Clips and Elbow Terminals.....	No. 8375	1.25
Alligator Clips and Spade Terminals.....	No. 8376	1.25
Combination test prods with removable Alligator clips and Elbow terminals.....	No. 8463	1.85
Test Prods for Model 355.....	No. 8600	1.75
Thermistor Lead—15' for Model 385.....	No. 0010	3.95

CARRYING CASES

SIMPSON EVER-REDY INSTRUMENT CARRYING CASES—Saves your time! Large, one-piece lid folds back to expose meter and selection switches . . . ready for instant testing.

Leather Carrying Case for Model 260.....	No. 1818	\$7.75
Ever-Redy Vinyl Carrying Case for Models 260, 303, 276.....	No. 4236	9.75
Ever-Redy Vinyl Carrying Case for Models 262, 269, 388, 388-3L.....	No. 5262	9.95
Ever-Redy Leather Carrying Case for all Microtesters.....	No. 4299	5.95
Leatherette-Covered Carrying Case for all Microtesters.....	No. 3011	5.95
Leatherette-Covered Carrying Case for Models 391, 392.....	No. 3413	5.95
Zipper Type Carrying Case for Model 355.....	No. 6355	2.95



**EVER-REDY
VINYL CARRYING CASE**
No. 4236..... **\$9.75**

Simpson

THERM-O-METER MODEL 388

Measures Temperatures
-50° to +1000° F

Measures the temperature of practically anything. Size is 7¹⁵/₁₆" x 6" x 2¹⁵/₁₆". Two models... each supplied with internal battery, one 7¹/₂" general purpose probe (No. 0190). Order additional Probes as required. With Operator's Manual.



Model 388: For one probe..... **\$59⁵⁰**
(Supplied with one No. 0190 Probe)

Model 388-3L: For 3 probes..... **\$64⁵⁰**
(Supplied with one No. 0190 Probe)

ADDITIONAL PROBES For 388 and 388-3L—General Purpose Probe No. 0190..... \$4.95
Surface Temperature Probe . . No. 0187 6.95

Model 390

AC
VOLT-AMP
WATTMETER



Model 390 provides four wattage ranges which cover practically any appliance. Ruggedly-built.
VOLTS: 0-150, 300;
AMPS: 0.3, 15;
WATTS: 0-300, 600, 1500, 3000.

Model 390 with Break-in Plug, Leads and Operator's Manual **\$43⁹⁵**

LINE-O-METER line current-capacity tester MODEL 397



Pretests the ability of existing electrical circuits to furnish *motor-starting current from 13 to 50 amperes*. Just plug the cord of Model 397 into the outlet to be tested, and take your reading.

Weight: 2 lbs.
Size: 3¹¹/₁₆" x 5¹/₂" x 2¹/₂".
Model 397,
With Operator's Manual. **\$29⁹⁵**

TEMPERATURE METER MODEL 385

This compact instrument is ideal for measuring temperatures from +70°F to as low as -50°F, where fast accurate temperature readings are important.

Model 385 with Test Leads and operator instructions. **\$30⁰⁰**

Model 385-3L For 3 Probes Supplied with one No. 0010 Probe. **\$33⁹⁵**



AC-DC VOLT-WATTMETERS

MODEL 391

3000 Watts Maximum
Ranges—AC or DC

VOLTS: 0-130, 0-260
WATTS: 0-1500, 0-3000

Both models used for simultaneous readings of volts and watts... have two separate 3" square meters, built-in cord and plug for connection to the line outlet, and separate toggle switches for range selection.

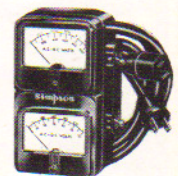
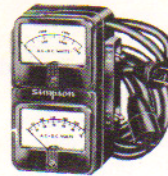
Model 391 with Cord, Plug and Operator's Manual..... **\$34⁹⁵**

MODEL 392

5000 Watts Maximum
Ranges—AC or DC

VOLTS: 0-130, 0-260
WATTS: 0-1000, 0-5000

Model 392 with Cord, Plug and Operator's Manual..... **\$37⁹⁵**



NEW!

FOR SERVICING GAS FIRED EQUIPMENT

Furnaces • Boilers • Heaters
Hot Water Heaters • Dryers
Refrigerators

Checks safety thermocouples on GAS-FIRED Units

MILLIVOLTMETER, Model 387

The new Simpson Millivoltmeter makes gas unit servicing faster, more accurate. Simply place the probe leads across the thermocouple terminals and test for correct value. Ranges are 10, 30, 100, 300, and 1000 millivolts. Accuracy is 3% of full scale from 50° to 120° F. Handy pocket size—only 3" x 5⁷/₈" x 2¹/₂".

Model 387 with leads and Operator's Manual..... **\$29⁹⁵**



Simpson

PANEL INSTRUMENTS

Simpson can supply panel instruments to meet your exact requirements. Over 800 stock sizes and types, alone, are available through 1500 distributors. Many custom-built units are quickly made from standing tools. Others

to your exact specifications. Four proven movements.

Write for
Bulletin 2057



Bob Middleton



Puzzled over a service problem? Send those "toughies" to Bob at the factory. If there's an answer, he'll shoot it back to you pronto!

Simpson ELECTRIC COMPANY

5200 W. Kinzie St.
Chicago 44, Illinois
Phone: EStbrook 9-1121

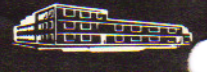
In Canada:
Bach-Simpson Ltd.,
London, Ont.



LAC DU FLAMBEAU
PLANT



LAKE ST. PLANT



KINZIE ST. PLANT



AURORA PLANT