

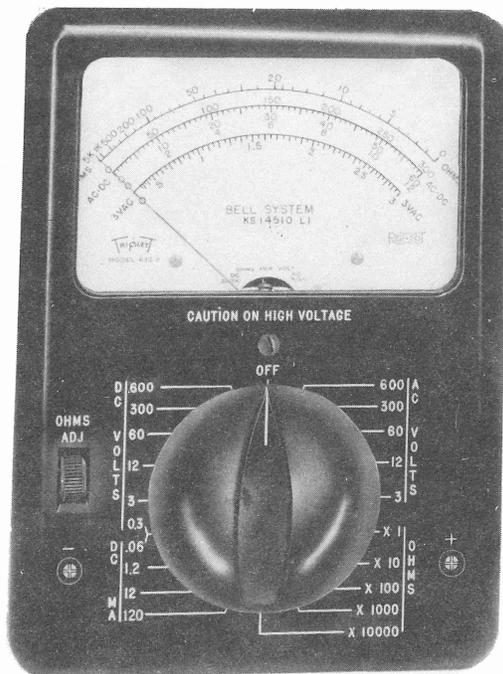
NONCODED GAUGES

VOLT-OHMMETERS, VOLT-OHM-MILLIAMMETERS AND VOLTOHMISTS

**VOLT-OHMMETER, KS-7345**  
 A Weston Model No. 564 volt-ohmmeter  
**Ranges:**  
 Volts (d-c only), 300/150/30/15  
 Ohms, 100,000/10,000  
 Sensitivity, 1,000 ohms per volt  
 Replaced by the KS-14510, List 1 volt-ohm-milliammeter

**VOLT-OHMMETER, KS-8295**  
 A Weston Model No. 697 volt-ohmmeter  
**Ranges:**  
 Volts (d-c or a-c), 300/150/30/15  
 Ohms, 1,000,000/100,000/10,000/1,000  
 Sensitivity, 1,000 ohms per volt  
 Replaced by the KS-14510, List 1 volt-ohm-milliammeter.

→ **VOLT-OHM-MILLIAMMETER, KS-14510**  
 (In ordering, specify KS and list number desired.)



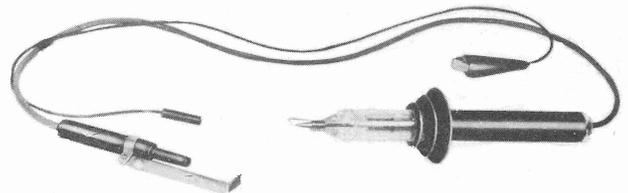
A special Model No. 630D Triplet Electrical Instrument Co. meter  
**Ranges:**  
 Volts (d-c or a-c), 600/300/60/12/3  
 (d-c only), 0.3  
 Milliamperes (d-c only), 120/12/1.2/.06  
 Ohms, 50,000,000/5,000,000/500,000/50,000/5,000  
**Accuracy:** ±2% of full scale for d-c measurements; ±5% of full scale for a-c measurements; ±2% of full scale at mid-scale for resistance measurements.

Sensitivity: (dc) 0.3 V scale - 16,667 ohms per volt.  
 All other scales - 20,000 ohms per volt.  
 (ac) 3,000 ohms per volt.

KS-14510, List 1 volt-ohm-milliammeter - Equipped with one pair each of List 2 and List 3 leads. Refer also to List 5 below.  
 KS-14510, List 2 leads - one pair of test leads equipped with KS-14530 connectors and test prods.  
 KS-14510, List 3 leads - one pair of test leads equipped with KS-14530 connectors and alligator clips.  
 KS-14510, List 4 carrying case.  
 KS-14510, List 5 volt-ohm-milliammeter - Equipped with one pair each of List 2 and List 3 leads. Similar to List 1 except that when the meter range switch is set for the 0.3 volt d-c reading, the AC-DC scale is calibrated at the 0.275 volt point to be within ±0.5% of full scale deflection when the meter is horizontal. This point is marked by a red scale division.  
 KS-14510, List 6 leads - one pair of test leads, one with a KS-14530 connector and KS-14510, List 7 test prod, and the other with a KS-14530 connector and test clip.  
 KS-14510, List 7 test prod.



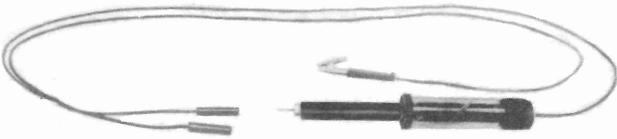
Consists of a metallic rod surrounded by a retractile, spring-loaded, insulated tube which under conditions of normal use covers the upper contact point to prevent undesired contacting. May be used with other types of meters or for checking instruments such as cathode ray oscilloscopes by attaching to a suitable lead.  
 KS-13632, List 1 carrying strap.  
 KS-14530 connector - For instrument end of test lead.  
 KS-14708, List 1 test leads.



A pair of 12-kilovolt test leads, one with a spring-type, safety, meter connector and a voltage multiplier test probe which contains a 240-megohm ±2% resistor for extending the 3-volt d-c range of the KS-14510 volt-ohm-milliammeter to 12,000 volts as read on the 12-volt scale, the

other with a KS-14530 connector and test clip. The two leads are bound together at a point a short distance from the meter connectors to assure use as a complete assembly.

KS-14709, List 1 test leads



A pair of 3-kilovolt test leads, one with a KS-14530 connector and a voltage multiplier test probe which contains a 60-megohm  $\pm 1\%$  resistor for extending the 3-volt dc range of the KS-14510 volt-ohm-milliammeter to 3,000 volts as read on the 300-volt dc scale, the other with a KS-14530 connector and test clip. The two leads are bound together at a point a short distance from the meter connectors to assure use as a complete assembly.

Fuse: Type 8AG 1/2-ampere, 250-volt instrument fuse. (A spare fuse is mounted inside of the case).

Batteries: A 1.5-volt battery, KS-6522 or equivalent, and a 30-volt battery, Everready No. 413 or equivalent, are required for the operation of the ohmmeter portion of these instruments. These batteries must be ordered separately.

These instruments weigh about 4 lbs. They are housed in a black plastic case 7-1/2" high by 5-1/2" wide and 3-1/4" deep.

The KS-14510, List 1 volt-ohm-milliammeter replaces the KS-7345 and KS-8295 volt-ohmmeters and the M9B meter.

KS-14510, List 1 volt-ohm-milliammeter is for general use.

KS-14510, List 5 volt-ohm-milliammeter is for use at type O carrier repeater points with 130-volt power supply.

#### METER, M9B

A volt-ohm-milliammeter

Ranges:

Volts (dc or ac), 600/300/150/30/15/3  
 Amperes (dc only), 15/3/0.15  
 Ohms 1,000,000/100,000/10,000/1,000  
 Accuracy:  $\pm 2\%$  of full scale for dc voltage measurements and  $\pm 5\%$  of full scale for ac voltage measurements,  $\pm 2\%$  of full scale at mid-scale for resistance measurements.  
 Sensitivity: (dc and ac) 2,000 ohms per volt.

Battery replacement (4-1/2 volt): Use a Bright Star 03-17S Everready 781, Burgess 5360, Ray-O-Vac 531R or Bond 317 battery.

Replaced by the KS-14510, List 1 Volt-ohm-milliammeter.

#### VOLTOHMYST, RCA WV-97A SENIOR

Ranges

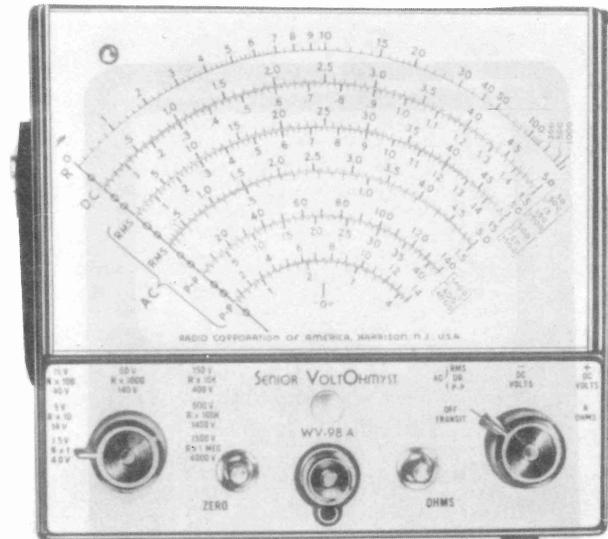
Volts (dc) 0 to 1.5/5/15/50/150/500/1500-V.  
 Volts (ac) Rms value - 0 to 5/15/50/150/500/1200-V.  
 Peak-to-peak value - 0 to 4/14/42/140/420/1400/3400-V.

Megohms - 0-1000 megohms in seven ranges.

Overall accuracy - dc -  $\pm 3\%$  of full scale  
 ac -  $\pm 5\%$  of full scale

Replaced by RCA WV-98A senior voltohmyst

#### VOLTOHMYST, RCA WV-98A SENIOR



Ranges:

DC voltmeter, 0 to 1.5/5/15/50/150/500/1500-V  
 Input resistance (including 1 megohm in probe):

All ranges, 11 megohms

Sensitivity: 1.5-V range, 7.3 megohms/volt

Accuracy: all ranges,  $\pm 3\%$  of full scale

AC voltmeter

Ranges:

Volts - Peak-to-peak - 0 to 4/14/42/140/420/1400/4200-V.  
 Rms for sine waves - 0 to 1.5/5/15/50/150/500/1500-V.

Input resistance and capacitance with  
WG-299A probe set to AC-OHMS:

1.5/5/15/50/150-V ranges, 0.83 megohms  
(min) shunted by 70 $\mu$ mf  
500-V range, 1.3 megohms shunted by 60 $\mu$ mf  
1500-V range, 1.5 megohms shunted by 60 $\mu$ mf

Frequency response with WG-299A probe set to  
AC-OHMS:

1.5/5/15/50/150/500-V from 30 cps to 3 Mc  
for voltage source having 100-ohm im-  
pedance or lower.

Overall accuracy: all ranges,  $\pm 3\%$  of full  
scale

Maximum input voltages:

DC voltages, No ac voltage present:  
1500 volts

AC voltages, no dc voltage present:  
Rms for sine waves 1500-V  
Peak-to-peak for sine waves 4200-V  
Peak-to-peak for complex waves 2000-V

Combined ac and dc voltages:  
Sum of dc and peak ac voltages 2000-V

Ohmmeter, seven ranges: 0 to 1000 megohms

Center scale values:  
10/100/1000/10,000 ohms  
0.1/1/10 megohms

Tube complement: 1 6AL5, 1 12AU7

Power Supply required:

Voltage	105-125 volts
Frequency	50/60 cps
Power consumption	5 watts

Battery - (1.5-V) KS-6522 or equivalent.

Accessories supplied with this meter:

Probe and shielded cable, WG-299A  
Instruction booklet

Size of instrument:

6-1/2" x 7" x 3-3/4"

Weight: 6 lbs.

Replaces the RCA WV-97A senior volttohmyst.

For use initially on monitor amplifiers  
of the master test frame, and message  
register power supply and associated  
no-voltage alarm circuits in No. 5  
crossbar offices. For detailed de-  
scription of this meter, refer to the  
RCA manual.

VOLTOHMYST, RCA 195A

Ranges:

Volts (dc or ac) 5/10/50/100/500/1000  
Megohms, 0.001/0.01/0.1/1/10/1000

Accuracy:  $\pm 2\%$  of full scale

Replaced by the RCA WV-98A senior volttohmyst