

ENGINEERING REFERENCE DATA

ELECTRICAL
INDICATING INSTRUMENTS
(METERS)
METER-TYPE RELAYS

*BELL TELEPHONE LABORATORIES
INCORPORATED*



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INTRODUCTION

GENERAL

This Engineering Reference Data Bulletin contains information on electrical indicating instruments designed by the Bell Telephone Laboratories, Incorporated and manufactured by suppliers other than the Western Electric Company in accordance with specifications prepared by the Laboratories. It is intended primarily for use by engineers of the Laboratories.

The meters described in this bulletin are covered in KS specifications. In most cases they have special characteristics not found in meters listed in manufacturers' catalogs. Omitted are instruments designed for Military Application and for radio equipment no longer manufactured by the Western Electric Company. Also excluded are Western Electric coded meters, information for which is in the Western Electric Apparatus Card Catalog.

Items designated PREFERRED are those recommended for use wherever practicable. Such items also have standard dimensions in accordance with the American Standard for Electrical Indicating Instruments, C39,1-1955. The manufacturers of meters listed in this Engineering Reference Data Bulletin have agreed to conform with the American Standard which is, therefore, an important source of data supplementing this bulletin.

Items not designated PREFERRED are NON-PREFERRED and should not be specified in new applications unless there is no other way of economically accomplishing the desired results. The NON-PREFERRED items include (a) the older designs which may have been superseded but which still are needed for maintenance purposes, (b) designs more expensive to manufacture than others which may perform the same function and, (c) items in such small demand that they are more costly to furnish.

It is planned to bring this bulletin up to date periodically. However, as the information contained herein may not be complete, the final selection of apparatus should be made on the basis of the usual sources of information such as the KS specifications and price data.

Each section of this bulletin is subdivided into tables according to the type of current and size of meter. The meters are listed either in order of sensitivity or scale range.

COLUMN HEADINGS

SENSITIVITY - the current at full scale reading. If the end-scale sensitivity is other than zero, it is also indicated.

SCALE CAPTION - the unit of measurement as designated on the scale.

COLUMN HEADINGS (Contd)

SCALE DIVISIONS - All divisions whether or not designated on the scale.

ACCURACY - the maximum error expressed as a percentage of full-scale reading and applicable at any point, except as noted.

RESISTANCE - the total between instrument terminals and exclusive of external components, except as noted.

BODY SIZE - (For flush and semi-flush cases) the dimensions of the rear surface of the portion which goes through the panel when mounted.

ABBREVIATIONS used in this bulletin

B - Bakelite; Molded thermosetting compound

D - Double

FL - Flush

HOR - Horizontal

MAG - Magnetic

Met. - Metal

MM - Methyl Methacrylate (transparent)

NM - Non-magnetic

S - Single

SF - Semi-flush

SM - Side mounting

SUR - Surface

VERT - Vertical

Dashes in the tables indicate data which are unimportant, unavailable, or not applicable.

Unless otherwise specified, all scale designations and markings are in black.

All dimensions are in inches. Some are in decimal form to facilitate computation with tolerances for accomodating associated parts.

MASTER SPECIFICATION FOR METERS - KS16187

This specification, initially issued in April 1955, contains the general requirements and test procedures for panel, switchboard, and portable permanent magnet moving coil type electrical indicating instruments which are to be manufactured for the Western Electric Company and which are intended for use in the Bell System. This specification is intended to serve as a master specification and is referred to in the KS specifications covering the individual meters.

METER-TYPE RELAYS

Meter-type relays are designed for specific assignments and are not universally applicable. For any specific information not contained in the KS specification or Section VII, Meter-Type Relays in this bulletin, or for any additional information regarding electrical indicating instruments, Department 2332 (Mr. P. M. Mackoff) should be consulted.

SHUNTS

<u>KS</u>	<u>List No.</u>	<u>Page</u>	<u>KS</u>	<u>List No.</u>	<u>Page</u>
3001	-	I-15	13358	-	III-8
6842	-	III-8	13700	-	III-8
7897	-	III-8	14624	-	I-6
*9442	4	II-3	14665	-	II-5
9442	5	II-5	14717	-	III-2
9442	6	II-3	14728	-	II-5
9442	9	II-3	14772	-	III-4
9442	10	II-4	16058	2	III-11
9442	11	II-6	16112	2	II-5
9442	12	II-4	16113	2	II-5
9442	13	II-6	16355	2	III-5
9442	14	II-6	16356	2	III-8
9442	15	II-6	16850	-	II-3
9442	20	II-4	19001	-	III-8
9442	21	II-5	19008	2	III-11
9442	25	II-6	19073	2	II-5
9442	29	II-6	19307	3	III-7
9442	30	II-4	19309	2	III-7

* For other list numbers and shunt values see specification.

NOTES:

- A - Scale has lines and markings in red as follows:
Line at 23 volts marked "30 mils" and line at 75 volts marked "75 volts".
- B - Methyl methacrylate transparent case.
- C - Tolerance on balance will be 1/2 the basic meter accuracy.
- D - Meters are internally shielded.
- E - Solder-type stud terminals, available in lengths of 1-9/16, 1-5/8, 2, and 2-1/4 inches.
- F - Meets American Standards Association standards for case dimensions.
- G - Accuracy at 13 volt mark on scale is $\pm 0.5\%$ of full scale deflection.
- H - Accuracy at 24 volt mark on scale is $\pm 1.0\%$ of full scale deflection.
- J - Special damping.
- K - Meets American Standards Association requirements.
- L - Accuracy at 50 volt mark on scale is 1.0% of full scale deflection.
- M - Special magnet.
- N - Front of meter is clear methyl methacrylate and case is bakelite.
- (P) = Preferred code.
- Q - Full scale sensitivity of 100 ua dc.
- R - Special dynamic characteristics.
- S - Can be mounted at any inclination from horizontal to vertical.
- T - Designed for use with KS8467 milliammeter and not recommended for use otherwise.
- U - Accuracy at 135 volt mark on scale is $\pm 1.0\%$ of full scale deflection.
- V - Full scale sensitivity of 200 ua.
- W - Resistance across terminals includes external resistor.
- X - Mirror scale.
- Y - Accuracy at 11 volt mark on scale (indicated in red) is 0.5% of full scale deflection.
- Z - Accuracy at 118 volt mark on scale (indicated in red) is $\pm 1.0\%$ of full scale deflection.
- AA - Accuracy at 19 volt mark on scale (indicated in red) is $\pm 0.5\%$ of full scale deflection.
- AB - Terminals 3/4 inch long will be furnished unless otherwise specified. Terminals may be obtained in 9/16, 1, 1-1/2, 2, and 3 inch lengths.
- AC - Accuracy at 21 volt mark on scale (indicated in red) shall be 0.5%.
- AD - Rectifier-type instrument.
- AE - Key is used for connecting terminals of 0-40 range
- AF - Terminal strip is used for connecting terminals of 0-40 volt range.
- AG - Department 2332 should be consulted for information regarding resistance.
- AH - Sensitivity is 0-30 volts ac.
- AJ - Moving-iron type meter.
- AK - Loss across terminals 4 volt-amperes at 60 cycles.
- AL - When used with KS16028L2 external resistor having a resistance of 10000 ohms $\pm 4\%$, the total resistance shall be 18000 ohms $\pm 20\%$.
- AM - Front of meter is bakelite and case is steel.
- AN - Full scale sensitivity is 50 volts at 60 cycles ac
- AP - Has "R" and "N" markings in red on scale at 5.7 and 6.3 volt points, respectively.
- AQ - Full scale sensitivity is 15 volts at 60 cycles ac
- AR - Accuracy at 230 volt mark on scale shall be within ± 0.5 volt. Meter shall not drift at any point more than ± 0.5 volt when subjected to temperature variations from 5°C to 40°C. Equipped with a silicon-type rectifier.
- AS - Portable instrument.
- AT - Recording instrument.
- AU - Has a voltage drop of 50 millivolts $\pm 2\%$ adjusted for use with 0.065 ohm leads. A pair of 0.065 ohm connecting leads, 5-0 ft. long, are furnished with the meter.
- AV - Special protection against overload.

NOTES (Contd)

- AW - A pair of 12 inch leads are furnished as a part of this meter. The meter shall be calibrated with these leads.
- AX - Has knife-edge pointer.
- AY - KS16461L4 leads (8-0 ft. long) are required for operation of this meter and must be ordered separately. Meters are adjusted for use with these leads.
- AZ - A pair of meters, identified respectively by the suffixes "A" and "B". The allowable accuracy error for each meter at the 1.7 ampere scale mark is $\pm 1.0\%$ of full scale deflection and the paired meters must be within $\pm 0.5\%$ at the same mark.
- BA - Entirely replaced by the G2T meter which has been replaced by the AA2L meter. G2T meter is electrically but not physically interchangeable.
- BB - Side indicating.
- BC - Special Air damping.
- BD - KS7361L2 meter is without carrying case. Operates on pulsing dc from 3 to 40 pulses per second. Portable meter.
- BE - Zero sensitivity is at right of scale at 100 mark.
- BF - Numerals 100 to 0 on inner scale arc are red.
- BG - Has red area on scale extending from 245 to 255ma.
- BH - On ma scale, arc is heavy line from 1.6ma to 4.0ma.
- BJ - Meets special temperature requirements for resistance and accuracy. Meter is capable of withstanding a recurring current of 7ma without damage or loss of accuracy. All markings on upper scale "A" are red.
- BK - All markings on upper scale are red.
- BL - Has limited distortion of accuracy from external magnetic influence.
- BM - At 300 and 600ma points on the scale, indicated in red, the accuracy shall be $\pm 0.5\%$.
- BN - Drop across terminals is 100 millivolts $\pm 10\%$.
- BP - Accuracy is $\pm 2\%$ when mounted horizontally.
- BQ - Accuracy at any point of the scale shall be 0.1db.
- BR - Special dielectric test.
- BS - Meets special temperature requirements for resistance and accuracy and is capable of withstanding a recurring current of 7ma without damage or loss of accuracy.
- BT - Characters "A" and "0 to 15" on upper scale are red, all other characters and lines are black.
- BU - Differential-type meter.
- BV - Accuracy shall be 0.5% at any point on the scale except at the 389ma point where it shall be 0.25%.
- BW - Has wooden case with aluminum face plate. A magnetic shield is attached to the back of the case. The accuracy at mid-scale shall be ± 0.25 per cent of full scale deflection.
- BX - Has barrier-type terminal strip for terminals. Front of meter is black phenol and case is steel.
- BY - On scale, lines at 106.6ma and 129.14ma are red and designated "CAL-1V 110 OHMS" and "CAL 1V 75 OHMS" respectively.
- BZ - Calibrated for use in a KS5646 projector in a vertical position with pointer indicating downward. Has binding post terminals.
- CA - Temperature influence not to exceed 0.05% from 25°C to 35°C.
- CB - Accuracy at mid-scale shall be $\pm 0.25\%$ of full scale deflection.
- CC - A pair of meters, identified respectively by the suffixes "A" and "B". They are calibrated 5 inches apart on a 1/8 inch steel panel and shall agree within $\pm 0.5\%$ for the same current value.
- CD - Full scale sensitivity at 80kc is from .118ma at -10db to .544ma at +5db. The scale marking at zero is red.
- CE - 301 meter mounted in a Weston 564 box. Has attached S2A cord.
- CF - Spring drive clock.
- CG - 110volt 60 cycle Synchronous Motor Drive.
- CH - 110volt 50 cycle Synchronous Motor Drive.
- CJ - 110volt 25 cycle Synchronous Motor Drive.
- CK - Has carrying case.
- CL - Accuracy shall be $\pm 4\%$ up to 55ma; $\pm 3\%$ up to and including 65ma; $\pm 2\%$ all other values.

NOTES (Contd):

- CM - At mid-point of scale, the accuracy is not more than $\pm 1\%$. The entire lower scale is red.
- CN - On "Per cent" scale, numbers extend from scale center to right end only.
- CP - The current required to deflect the meter shall be as follows: $-3\text{db} = 106 \pm 4.25\text{ma}$; $0\text{db} = 150 \pm 2.25\text{ma}$; $+3\text{db} = 212 \pm 4.25\text{ma}$.
- CQ - Has red line at $+4$ and 0.8 on scale.
- CR - Resistance across terminals is shown at 77°F . At all other temperatures from $+40^\circ\text{F}$ to $+120^\circ\text{F}$, this value is $2000 \text{ ohms} \pm 1.5\%$.
- CS - Special meter. For use consult Mr. P.M.Mackoff, Department 2332, Bell Telephone Laboratories, Inc.
- CT - A damping resistor of approximately 25000 ohms for L1 and 50000 ohms for L2 is mounted inside the meter case. On scale, for both L1 and L2, all markings on "Per cent" scale (50 to 0) are red.
- CU - Instrument shall be capable of withstanding a suddenly applied 100% overload on either range.
- CV - Instrument shall be accurate within 0.7 division of upper scale at all points; capable of withstanding a current of 2ma suddenly applied and a continuous overload of 400ma . Line at 90 on upper scale is red.
- CW - Accuracy is 1% at full scale. Scale is illuminated internally from a 6 volt supply. On upper scale, $+DBM$, V and 5 are red.
- CX - Has internally mounted damping resistor of approx. 25000 ohms .
- CY - On inner scale "balance" is designated from 20 to 80 .
- CZ - On lower scale, figures, division line at 16 , and "Cal .Idg-Time" are red.
- DA - Scale has red line at approximately $+5\text{db}$. At this point the meter shall have an accuracy of $180 \pm 3\text{ua}$.
- DB - Capable of 100% suppression.
- DC - May be mounted with KS16973, L3 mounting flange which must be ordered separately.
- DD - All markings and designations on DB scale are red.
- DE - Case may be of ferrous or non-ferrous material.
- DF - Scale has a red line at approximately $+6.6\text{db}$. At this point the meter indicates 216ua without the varistor in the circuit. When the meter is calibrated as specified, accuracy is as follows:
 - From $+10\text{db}$ to $0\text{db} \dots \pm 0.25\text{db}$
 - From 0db to $-3\text{db} \dots \pm 0.5\text{db}$
 - From -3db to $-7\text{db} \dots \pm 1.0\text{db}$
- DG - Figures on lower scale are red.
- DH - Accuracy of the meter at ambient temperatures of 60°F to 120°F is as follows:
 - $0-200\text{ua}$ range.....at full scale, $200 \pm 10\text{ua}$
 - $0-75\text{ma}$ range..... $20\text{ma} \pm 1.5$, $62.5\text{ma} \pm 1.5$
 - $0-60 \text{ volt}$ range...at 62.5 mark, $50 \pm 0.5 \text{ volts}$
- DJ - Accuracy of the meter at ambient temperatures of 60°F to 120°F is as follows:
 - $0-200\text{ua}$ range...at full scale, $200 \pm 10\text{ua}$
 - $0-75\text{ma}$ range..... $20\text{ma} \pm 1.5$, $62.5\text{ma} \pm 1.5$
 - $0-216 \text{ volt}$ range.at 62.5 mark, $180.2 \pm 1.8 \text{ volts}$
- DK - Has special ballistic characteristics.
- DL - On scale, numerals of 30 volt range and 375ma range are red.
- DM - On inner scale, "Per cent Bias", and numerals 0 , 10 , and 20 are red. The Per cent Bias range has a sensitivity of 10ma .
- DN - Portable test set. Operates on self-contained batteries.
- DP - All markings, designations, and scale to right of "0 VU" are red.
- DQ - Dust and moisture-proof case.
- DR - Under certain conditions, frequency requirements above 3500 cycles may be waived. If applicable, order should so state.
- DS - Has special resistance requirements, effects of frequency, rectifier characteristics, and conditions of harmonic distortion. The accuracy is variable - see KS specification. The dielectric test is 1000 volts at 60 cycles ac.
- DT - Scale is illuminated and lamps are connected in series.
- DU - Scale is illuminated and lamps are connected in parallel.
- DV - Accuracy is $\pm 1\%$ except at the following points:
 - $\pm 0.25\%$ at the 140 volt point on the PLT VOLT scale and $\pm 1.5\%$ at the $138-$ and $142-$ volt points.
 - The front of the case is waterproof.

NOTES (Contd):

- DW - High speed pointer action.
- DX - When meter is mounted horizontally the end scale accuracy is $\pm 10\%$. When mounted other than horizontally the end scale accuracy is $\pm 6\mu a$.
- EA - Has external resistor.
- EB - External 248000 ohm series resistor required but not furnished with relay.
- EC - Contact is adjustable to make at any voltage over the range 20-25 volts.
- ED - External 498000 ohm series resistor required but not furnished with relay.
- EE - Contact is adjustable to make at any voltage over the range 45-50 volts.
- EF - Has adjustable index.
- EG - Contact is adjustable to make at any increasing voltage over the range 51-56 volts.
- EH - Contact is adjustable to make at any decreasing voltage over the range 46-51 volts.
- EJ - Has KS16335L2 adapter ring for use when replacing KS14783 or KS14397 voltmeter relays.
- EK - Accuracy is 1% of full scale deflection at 52 volt scale marking, 2% at all other points.
- EL - Has external rectifier.
- EM - Contact is adjustable to make at any voltage between 0.5 and 1.0 volt.
- EN - Has external resistor-rectifier.
- EP - Differential-type AC voltmeter relay operating on an unbalance between voltages of two lines which, when balanced, are each at a potential of 6.0 volts. Points of contact are adjustable for an unbalance of up to 0.2 volts in either direction.
- EQ - "Twintact" contacts.
- ER - Relay shall operate in ambient temperatures from $-30^{\circ}F$ to $+110^{\circ}F$.
- ES - Has 1/16 inch insulator between panel and instrument.
- ET - Accuracy at Odb is $\pm 10\mu a$, at all other points, $\pm 15\mu a$.
- EU - Relay shall operate in ambient temperatures from $-40^{\circ}F$ to $+158^{\circ}F$.
- EV - Solenoid reset adjusted to reset from the left and right sides to 0 at 9 ± 1 volts dc on a slowly rising voltage.
- EW - Relay shall operate in ambient temperatures from $+20^{\circ}F$ to $+140^{\circ}F$.
- EX - Relay shall operate in ambient temperatures from $+40^{\circ}F$ to $+140^{\circ}F$.
- EY - Relay operates on 200ua maximum.
- EZ - Relay shall operate in ambient temperatures from $+40^{\circ}F$ to $+160^{\circ}F$.
- FA - Accuracy is $\pm 1\%$ at 27.5 volt scale marking, $\pm 2\%$ at all other points.
- FB - Relay shall operate in ambient temperatures from $+50^{\circ}F$ to $+160^{\circ}F$.
- FC - Eleven pin plug connector mates with Amphenol 78-S11 socket.
- FD - Accuracy is as follows: 0 to $-5.0 = \pm 0.15\mu a$;
 -5.0 to $-6.0 = \pm 0.25\mu a$.
- FE - Accuracy is as follows: 0 to $-5.0 = \pm 0.100\mu a$;
 -5.0 to $-6.0 = \pm 0.20\mu a$.
- FG - Has dual mechanism and scale.
- FH - Accuracy is $\pm 5\mu a$ at 417.1ua. Mark on scale at 417.1ua in fluorescent yellow.
- FJ - Terminates in AN3102-12S-3P receptacle.
- FK - Magnetically shielded.



**SECTION I
VOLTMETERS**

KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS (Ohms per volt)	EXTERNAL COMPONENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOT-NOTES
	RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
8200	0 to 75	Volts	75	2%	1000	None	Round 2-15/16	-	B	SUR	NM	HOR	2	1.31	Weston	301	-
8509 MD	0 to 100	Volts	50	2%	200	None	Round 2-3/4	-	Met.	SUR	NM	HOR	2	1.31	Weston	301	A
8368	100 to 150	Volts	50	2%	200 ±20%	None	Round 2-15/16	-	B	SUR	MAG 1/4	VERT	2	1.31	Weston	301	-

KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS (Ohms per volt)	EXTERNAL COMPONENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOT-NOTES
	RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
(P)14509, L16	0 to 0.5	Volts	50	2%	1000 ± 2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplett Weston	321L 301	B,C
(P) 14508, L1	0 to 1	Volts	50	2%	125 ± 10%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplett Weston	321L 301	B,C
(P) 14509, L1	0 to 1	Volts	50	2%	1000 ± 2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplett Weston	321L 301L	B,C
14600, L1	0 to 1	Volts	50	2%	125 ± 10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	H	Triplett Weston	324 301	C,D, E
(P)14788, L1	0 to 1	Volts	50	2%	1000 ± 2%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	H	Triplett Weston	324 301	C,D, E
(P)14509, L2	0 to 1.5	Volts	75	2%	1000 ± 2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplett Weston	321L 301	B,C
(P)14788, L2	0 to 1.5	Volts	75	2%	1000 ± 2%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	H	Triplett Weston	324 301	C,D, E
(P)14508, L2	0 to 3	Volts	60	2%	125 ± 10%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplett Weston	321L 301	B,C
(P) 14509, L3	0 to 3	Volts	60	2%	1000 ± 2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplett Weston	321L 301	B,C
14600, L2	0 to 3	Volts	60	2%	125 ± 10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	H	Triplett Weston	324 301	C,D, E
(P)14788, L3	0 to 3	Volts	60	2%	1000 ± 2%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	H	Triplett Weston	324 301	C,D, E

Footnotes and explanations of column heading and abbreviations are to be found in the Introduction.

January 1965

DC VOLTMETERS
3rd to 3-63/64" Inclusive, Front Dimension

KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS (Ohms per volt)	EXTERNAL COMPO. NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE. RIAL	MOUNTING			TERMINALS		MANUFAC. TURER	MFRS. MODEL NO.	FOOT. NOTES
	RANGE	CAPTION	DIVI. SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
P) 14508, L3	0 to 8	Volts	40	2%	125 ± 10%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C
(P) 14509, L4	0 to 8	Volts	40	2%	1000 ± 2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C
14600, L3	0 to 8	Volts	40	2%	125 ± 10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	H	Triplet Weston	324 301	C,D, E
(P) 14788, L4	0 to 8	Volts	40	2%	1000 ± 2%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	H	Triplet Weston	324 301	C,D, E
P) 14509, L5	0 to 10	Volts	50	2%	1000 ± 2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C
(P) 14788, L5	0 to 10	Volts	50	2%	1000 ± 2%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	H	Triplet Weston	324 301	C,D, E

Footnotes and explanations of column headings and abbreviations are to be found in the Introduction.

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KS SPEC. NO.	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINALS (Ohms per volt)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
	RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
(P) 14496, L2	7.5 to 15	Volts	75	2%	1875 ±2% (total)	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	VERT	2	.75 max	Triplet Weston	321L 301	B,C, F,G
(P) 14508, L4	0 to 15	Volts	75	2%	125 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C
(P) 14509, L6	0 to 15	Volts	75	2%	1000 ±2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C
14600, L4	0 to 15	Volts	75	2%	125 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	(E)	Triplet Weston	324 301	C,D, E
(P) 14788, L6	0 to 15	Volts	75	2%	1000 ±2%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	(E)	Triplet Weston	324 301	C,D, E
(P) 14497, L2	15 to 30	Volts	75	2%	3750 ±2% (total)	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	VERT	2	.78 max	Triplet Weston	321L 301	B,C, F,H
14956, L1	15 to 30	Volts	75	2%	3750 ±2% (total)	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	(E)	Triplet Weston	324 301	C,D, E,H
(P) 14508, L5	0 to 30	Volts	60	2%	125 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C
(P) 14509, L7	0 to 30	Volts	60	2%	1000 ±2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C

Footnotes and explanations of column headings and abbreviations are to be found in the Introduction.

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KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS (Ohms per volt)	EXTERNAL COMPONENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOT-NOTES
	RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
14600, L5	0 to 30	Volts	60	2%	125 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	(E)	Triplet Weston	324 301	C,D, E
(P)14788, L7	0 to 30	Volts	60	2%	1000 ±2%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	(E)	Triplet Weston	324 301	C,D, E
(P) 7204	0 to 30 0 to 120	Volts	60	2%	2500 ±1% (total) 100000 ±1%	None	Round 3-1/2	2.75 Diam	B	FL	NM	VERT	3	0.5	Weston	301	J,K
(P)14951	30 to 60	Volts	60	2%	7500 ±2% (total)	None	Round 3-1/2	2.80 Diam	MM	FL	MAG	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,L
14956, L2	30 to 60	Volts	60	2%	7500 ±2% (total)	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	(E)	Triplet Weston	324 301	C,D, E,L

DC VOLTMETERS
3" to 3-63/64" Inclusive, Front Dimension

Footnotes and explanations of column headings and abbreviations are explained in the Introduction.

KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS (Ohms per volt)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
	RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
(P) 14509, L8	0 to 50	Volts	50	2%	1000 ±2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C
(P) 14788, L8	0 to 50	Volts	50	2%	1000 ±2%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	(E)	Triplet Weston	324 301	C,D, E
19129, L1	50 to 0 to 50	Volts	50	2%	1 Meg ±5%	None	Round 3-1/2	2.75 Diam	B	FL	NM or MAG	HOR	2	.78 max	Triplet	321T	D
14624	0 to 50 0 to 150	Volts	50 75	2%	750 ±1% (total)	Shunts, Resis- tors	Round 3-1/2	2.80 Diam	MM	FL	NM	VERT	2	.78 max	Triplet	-	F,M, N,Q
(P) 14508, L6	0 to 60	Volts	60	2%	125 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C
14600, L6	0 to 60	Volts	60	2%	125 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	(E)	Triplet Weston	324 301	C,D, E
8466	75 to 0 to 75	Volts	60	2%	15000 (total)	None	Round 3-1/4	2.56 Diam	Met.	FL	NM	HOR & VERT	2	.69	Weston	301	R,S, T
(P) 14509, L9	0 to 80	Volts	40	2%	1000 ±2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C
(P) 14788, L9	0 to 80	Volts	40	2%	1000 ±2%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	(E)	Triplet Weston	324 301	C,D, E
14498, L2	80 to 160	Volts	40	2%	125	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	VERT	2	.78 max	Triplet Weston	321L 301	B,C, U
(P) 14508, L7	0 to 100	Volts	50	2%	125 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C
(P) 14509, L10	0 to 100	Volts	50	2%	1000 ±2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C

Footnotes and explanations of column headings and abbreviations are explained in the Introduction.

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KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS (Ohms per volt)	EXTERNAL COMPO. NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFAC. TURER	MFRS. MODEL NO.	FOOT. NOTES
	RANGE	CAPTION	DIVI. SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
14600, L7	0 to 100	Volts	50	2%	125 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	(E)	Triplet Weston	324 301	C,D, E
(P)14788, L10	0 to 100	Volts	50	2%	1000 ±2%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	(E)	Triplet Weston	324 301	C,D, E
(P)14509, L11	0 to 150	Volts	75	2%	1000 ±2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C
(P)14788, L11	0 to 150	Volts	75	2%	1000 ±2%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	(E)	Triplet Weston	324 301	C,D, E

DC VOLTMETERS
3" to 3-63/64" Inclusive, Front Dimension

Footnotes and explanations of column headings and abbreviations are explained in the Introduction.

KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS (Ohms per volt)	EXTERNAL COMPO. NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFAC. TURER	MFRS. MODEL NO.	FOOT. NOTES
	RANGE	CAPTION	DIVI. SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
(P) 14509, L12	0 to 200	Volts	40	2%	1000 ± 2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C
(P)14788, L12	0 to 200	Volts	40	2%	1000 ± 2%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	H	Triplet Weston	324 301	C,D, E
(P) 14509, L13	0 to 300	Volts	30	2%	1000 ± 2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C
(P)14788, L13	0 to 300	Volts	30	2%	1000 ± 2%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	H	Triplet Weston	324 301	C,D, E
(P) 14509, L14	0 to 500	Volts	50	2%	1000 ± 2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C
(P)14788, L14	0 to 500	Volts	50	2%	1000 ± 2%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	H	Triplet Weston	324 301	C,D, E
(P) 14509, L15	0 to 800	Volts	40	2%	1000 ± 2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	HOR & VERT	2	.78 max .38 max	Triplet Weston	321L 301	B,C
(P)14788, L15	0 to 800	Volts	40	2%	1000 ± 2%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	H	Triplet Weston	324 301	C,D, E
(P) 13342	0 to 3000	Volts	60	2%	5000	Resis- tor 15 MEG	Round 3-1/2	2.80 Diam	B	FL	NM	HOR	2	.76 max	Weston	301	K,V, W

Footnotes and explanation of column headings and abbreviations are explained in the Introduction.

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DC VOLTMETERS
1¹/₂" to 4-63/64" Inclusive, Front Dimension

KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS (Ohms per volt)	EXTERNAL COMPO. NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOT-NOTES
	RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
19006, L1	0 to 7.5 0 to 5 0 to 2.5	Kilo-volts	75 50 50	1%	850 ±20%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	V,AB
19007, L3	0 to 2.5	Kilo-volts	50	1%	850 ±20%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	V,AB
19520	0 to 3 0 to 30	Volts	60	2%	1000	None	Rectangular 4.96 x 4.20	2.76 Diam	B	FL	NM or MAG	VERT	3	.50 min	Weston	1941	D,X
19135, L1	0 to 4 0 to 20 0 to 80 0 to 200	Volts	40	1%	1000	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	5	3/4	Weston	741 Type 6	AB
19007, L2	0 to 5	Volts	50	1%	850 ±20%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	V,AB
19515	10 to 15	Volts	50	1%	10000 ±20%	None	Rectangular 4.96 x 4.20	2.76 Diam	B	FL	NM or MAG	VERT	2	.50 min	Weston	1941	D,X
16695, L3	7.5 to 15	Volts	75	1%	3000 ±2%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741	AB
19007, L1	0 to 7.5	Kilo-Volts	75	1%	850 ±20%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	V,AB
14462	0 to 15 0 to 150 0 to 300	Volts	75	2%	1000	None	Rectangular 4-3/16 x 4-5/8	2.75 Diam	B	FL	MAG .09	VERT	4	.78 max	Triplet	420	F,M, X,Y
16695, L2	15 to 30	Volts	30	1%	200	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741	AB
16155	0 to 25	Volts	50	1%	1000 ±2%	None	Round 4-9/16	3.75 Diam	B	FL	NM	VERT	2	1-1/8	Weston	643	AA
19137, L1	0 to 30	Volts	60	1%	1000	None	Rectangular 4-1/4 x 4-11/16	2.76 Diam	B	FL	NM or MAG	HOR	2	.75 max	Weston	1941	AC
19004, L1	0 to 30	Volts	60	1%	1000	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB
16695, L1	30 to 60	Volts	60	1%	200	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741	AB

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS (Ohms per volt)	EXTERNAL COMPONENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOT-NOTES
	RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
16460	80 to 160	Volts	40	1%	32000 ±2%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB
(P)14617	0 to 150	Volts	75	2%	1000	None	Rectangular 4-3/16 x 4-5/8	2.75 Diam	B	FL	NM	VERT	2	.78 max	Triplet	420	F, X, Z
16459	0 to 160	Volts	80	1%	32000 ±2%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB
16111	250 to 500	Volts	50	1%	1000	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB
19074	250 to 500	Volts	50	4%	1000	None	Rectangular 4-3/16 x 4-5/8	2.75 Diam	B	FL	NM or MAG	VERT	2	.78 max	Triplet	420	BL
19564	0 to 300	Volts	60	2%	1000 ±2%	None	Rectangular 4.96 x 4.20	2.76 Diam	B	FL	NM or MAG	VERT	2	.50 min	Weston	1941	D, X
14729	300 to 600	Volts	60	4%	1000	None	Rectangular 4-3/16 x 4-5/8	2.75 Diam	B	FL	MAG .09	VERT	2	.78	Triplet	420	
16110	300 to 600	Volts	60	1%	1000	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB
16352, L1	0 to 500	Volts	50	1%	2000	16352L2 Resis- tor	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM	VERT	2	3/4	Weston	746 Type 6	W
16109	0 to 600	Volts	60	1%	1000	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB
16349	0 to 750	Volts	75	1%	1000 ±2%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM	VERT	2	3/4	Weston	746 Type 6	
16711	3000 to 0 to 3000	Volts	60	1%	1000	16357L2 Resis- tor	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM	VERT	2	3/4	Weston	746 Type 6	W

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

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DC VOLTMETERS
4" to 9-63/64" Inclusive, Front Dimension

KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS (Ohms per volt)	EXTERNAL COMPONENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOT-NOTES
	RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
19308, L1	0 to 100	Volts	50	1%	1000	None	Rectangular 5.62 x 4.49	2.76 Diam	B	FL	NM or MAG	VERT	2	3/4 max	Weston	1951	X
19308, L2	0 to 250	Volts	50	1%	1000	None	Rectangular 5.62 x 4.49	2.76 Diam	B	FL	NM or MAG	VERT	2	3/4 max	Weston	1951	X
19308, L3	0 to 500	Volts	50	1%	1000	None	Rectangular 5.62 x 4.49	2.76 Diam	B	FL	NM or MAG	VERT	2	3/4 max	Weston	1951	X
16357	0 to 3000	Volts	150	.25%	1000	16357L2 Resistor	Rectangular 7-1/4 x 9-1/2	4.80 Diam	B	FL	NM	VERT	2	1/2	Weston	315 Type 3	W,X
19002, L1	0 to 7500	Volts	150	.25%	-	19002L2 Resistor	Rectangular 7.3 x 9.5 x 5.01	-	B	SF	NM or MAG	VERT	2	.49	Weston	315 Type 3	X

KS SPEC. NO.	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINALS (Ohms per volt)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
	RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
7348	0 to 4 0 to 20 0 to 40 0 to 200	Volts	-	5%	2000 (all ranges)	Key	Round 2-15/16	-	B	SUR	MAG 1/4	VERT	5	1.31	Weston	301	AD, AE

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

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AC VOLTMETERS
3" to 3-63/64" Inclusive, Front Dimension

KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS (Ohms per volt)	EXTERNAL COMPO. NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFAC. Turer	MFRS. MODEL NO.	FOOT. NOTES
	RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
8386	0 to 1	-	-	±5%	2000	None	Round 3-3/8	3.25 Diam	B	FL	MAG	VERT	2	.69	Weston	301	AD
8026	0 to 4 0 to 20 0 to 40 0 to 200	Volts	-	±5%	2000	None	Round 3-1/4	2.56 Diam	Met.	FL	NM	HOR	3	.78 max	Weston	302	AD, AE
(P) 14111	0 to 75	Volts	75	±2%	(AG)	None	Round 3-1/2	2.75 Diam	MM	FL	MAG .09	VERT	2	.76 max	Gen.El. Weston	A0-22 476 Type 2	B,D, AG
(P) 14112	0 to 150	Volts	75	±2%	(AG)	None	Round 3-1/2	2.75 Diam	MM	FL	MAG .09	VERT	2	.76 max	Gen.El. Weston	A0-22 476 Type 2	B,D, AG
(P) 14108	0 to 300	Volts	60	±2%	(AG)	None	Round 3-1/2	2.75 Diam	MM	FL	MAG .09	VERT	2	.76 max	Gen.El. Weston	A0-22 476 Type 2	B,D, AG
16457	0 to 300	Volts AC	60	±3%	(AG)	None	Round 3-1/2	2.75 Diam	MM	FL	NM or MAG	VERT	2	.78 max	Weston	1302	B,D, AG
(P) 14106	0 to 3000	Volts	60	±2%	(AG)	100:1 Potential Trnsf	Round 3-1/2	2.75 Diam	MM	FL	MAG .09	VERT	2	.76 max	Gen.El. Weston	A0-22 476 Type 2	B,D, AG

Footnotes and explanations of column headings and abbreviations are explained in the Introduction.

KS SPEC. NO.	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINALS (Ohms per volt)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
	RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
(P) 14646	0 to 5	Volts	50	±5% at 4000 cycles	1000 ±2%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	MAG 7/32	VERT	2	3/4	Weston	741	AB, AD
14647	0 to 8	Volts	32	1%	(AK)	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741	G, AB AJ, AK AP
16613, L1	0 to 300	Volts	60	4%	300000 ±2%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	MAG .09	VERT	2	3/4	Weston Hickcock	742 C1 59	AB, AD
16613, L2	0 to 300	Volts	60	2%	300000 ±2%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	MAG .09	VERT	2	3/4	Weston Hickcock	742 C1 59	AB, AR
16028, L1	0 to 300 (40 to 70 cycles)	Volts	50	1%	8000 (total)	16028L2 Resis- tor	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM	VERT	2	3/4	Weston	744	AJ, AL
16906	0 to 1.5 Kilovolts (60 cycles)	Kilo- volts AC	67	2%	230	377N Trans- former	Rectangular 3-15/16 x 4-1/4	3.25 Diam	Met.	SF	NM or MAG	VERT	2	.89	Weston	964	D, AJ, AM, AQ
(P) 14471	0 to 5 Kilovolts (60 cycles)	Kilo- volts	50	2%	2600 ±20% (total)	377N Trans- former	Rectangular 3-15/16 x 4-1/4	3.25 Diam	Met.	SF	MAG .09	VERT	2	.89	Weston	964 C1 60	D, AJ, AM, AN

Footnotes and explanations of column headings and abbreviations are explained in the Introduction.

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DC VOLTMETERS
RECORDING AND PORTABLE

KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS (Ohms per volt)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
	RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
14725, L1	0 to 85 0 to 30 0 to 6 0 to 3	Volts	45 30 30	2%	1000	14725L2 Test Leads	4-7/16 x 3-7/16 x 4-7/16	-	-	-	-	-	-	-	Triplet	327T	AS
19178, L1	0 to 15 0 to 30	Volts	150	0.5%	1000	19178L2 Case L3, L4, L5 Leads	5.58 x 6.28 x 3.44	-	-	-	-	HOR	-	-	Weston	931 Type S 87665	X,AS
3001	150 to 0 to 150	Volts	150	1%	660	Shunt	5-3/4 x 6 x 4-11/32	-	-	-	-	HOR	4	3/4	Weston	24	X,AS
16059	0 to 3000	Volts	60	-	2000	Multi- plier	16 x 10-9/16 x 11-5/16	-	Met.	FL	-	VERT	2	-	Ester- line- Angus	AW	AT
19009, L2	0 to 7500	Volts	75	1-1/2%	-	Resis- tor	10-9/16 x 15-23/32 x 10-3/32	-	Met.	FL	-	VERT	2	-	Ester- line- Angus	A601-C	AT

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

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**SECTION II
AMMETERS**

**SECTION II
AMMETERS**

January 1965

DC AMMETERS
3" to 3-63/64" Inclusive, Front Dimension

KS SPEC NO.	SENSITIVITY (Amperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
(P) 14507, L12	1	0 to 1	Amperes	50	2%	0.05 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B,C
14599, L1	1	0 to 1	Amperes	50	2%	0.05 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	1- 9/16	Triplet Weston	324 301	C,D
(P) 14507, L13	1.5	0 to 1.5	Amperes	75	2%	0.033 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B,C
14599, L2	1.5	0 to 1.5	Amperes	75	2%	0.033 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	2	Triplet Weston	324 301	C,D
(P) 14507, L14	2	0 to 2	Amperes	40	2%	0.025 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	324 301	B,C
14599, L3	2	0 to 2	Amperes	40	2%	0.025 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	1- 9/16	Triplet Weston	324 301	C,D
(P) 14507, L15	3	0 to 3	Amperes	60	2%	0.0166 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	2	Triplet Weston	321L 301	B,C
14599, L4	3	0 to 3	Amperes	60	2%	0.0166 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	1- 9/16	Triplet Weston	324 301	C,D
(P) 14507, L16	5	0 to 5	Amperes	50	2%	0.01 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B,C
14599, L5	5	0 to 5	Amperes	50	2%	0.01 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	1- 9/16	Triplet Weston	324 301	C,D
14680	5	0 to 1 0 to 5	Amperes	50	2%	0.05 ±10% 0.01 ±10%	None	Rectangular 3.12 x 3.12	2.75 Diam	B	FL	MAG .09	VERT	3	.78 max	Triplet Weston	327T 301	C
(P) 14507, L17	8	0 to 8	Amperes	40	2%	0.006 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B,C
14599, L6	8	0 to 8	Amperes	40	2%	0.006 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	2- 1/4	Triplet Weston	324 301	C,D
(P) 14507, L18	10	0 to 10	Amperes	50	2%	0.005 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B,C

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

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KS SPEC NO.	SENSITIVITY (Amperes)	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO. NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE. RIAL	MOUNTING			TERMINALS		MANUFAC. TURER	MFRS. MODEL NO.	FOOT. NOTES
		RANGE	CAPTION	DIVI. SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
14599, L7	10	0 to 10	Amperes	50	2%	0.005 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	1-9/16	Triplet West	324 301	C,D
14678	10	0 to 1 0 to 10	Amperes	50	2%	0.05 ±10% 0.005 ±10%	None	Round 3	-	B	SUR	MAG .09	VERT	3	2	Triplet West	324 301	C
(P)14507, L19	15	0 to 15	Amperes	75	2%	0.0033 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	1-9/16	Triplet West	321L 301	B,C
14599, L8	15	0 to 15	Amperes	75	2%	0.0033 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	2-1/4	Triplet West	324 301	C,D
14679	15	0 to 1.5 0 to 15	Amperes	75	2%	0.033 ±10% 0.0033 ±10%	None	Rectangular 3.12 x 3.12	2.75 Diam	B	FL	MAG .09	VERT	3	.78 max	Triplet West	327T 301	C
14507, L24	15	0 to 15	Amperes	75	2%	0.0033 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	1.05 max	Triplet West	321L 301	B,C
14599, L12	15	0 to 15	Amperes	75	2%	0.0033 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	1-9/16	Triplet West	324 301	C,D
(P) 14784, L4	15	0 to 15	Amperes	75	2%	0.0033 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM	HOR & VERT	2	.78 max	Triplet West	321L 301	B
(P) 14507, L20	20	0 to 20	Amperes	40	2%	0.0025 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet West	321L 301	B,C
14507, L25	20	0 to 20	Amperes	40	2%	0.0025 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	1.05 max	Triplet West	321L 301	B,C
14599, L9	20	0 to 20	Amperes	40	2%	0.0025 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	2	Triplet West	324 301	C,D
14599, L13	20	0 to 20	Amperes	40	2%	0.0025 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	2-1/4	Triplet West	324 301	C,D
(P) 14507, L21	30	0 to 30	Amperes	60	2%	0.0017 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet West	321L 301	B,C
14507, L26	30	0 to 30	Amperes	60	2%	0.0017 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	1.05	Triplet West	321L 301	B,C

Footnotes and explanations of column headings and abbreviations are explained in the Introduction.

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DC AMMETERS
3" to 3-63/64" Inclusive, Front Dimension

KS SPEC NO.	SENSITIVITY (Amperes)	SCALE			ACCURACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPONENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOT-NOTES
		RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
14599, L10	30	0 to 30	Amperes	60	2%	0.0017 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	2	Triplet Weston	324 301	C,D
14599, L14	30	0 to 30	Amperes	60	2%	0.0017 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	2-1/4	Triplet Weston	324 301	C,D
16850, L1 16850, L2	15 30	0 to 15 0 to 30	Amperes	75 60	2%	-	Shunt Shunt 16850L3 Leads	Round 3-1/2	2.75 Diam	MM	FL	NM or MAG	HOR & VERT	2	3/4	Weston	1301	B
(P) 14507, L22	50	0 to 50	Amperes	50	2%	0.001 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B,C
14507, L27	50	0 to 50	Amperes	50	2%	0.001 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	1.05	Triplet Weston	321L 301	B,C
14599, L11	50	0 to 50	Amperes	50	2%	0.001 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	2	Triplet Weston	324 301	C,D
14599, L15	50	0 to 50	Amperes	50	2%	0.001 ±10%	None	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	2-1/4	Triplet Weston	324 301	C,D
(P) 14784, L5	50	0 to 50	Amperes	50	2%	0.001 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	NM	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B
(P) 14952, L1	75	0 to 75	Amperes	75	2%	(AU)	KS 9442L4 Shunt	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B,D, AU
(P) 14952, L2	150	0 to 150	Amperes	75	2%	(AU)	KS 9442L6 Shunt	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B,D, AU
14957, L1	150	0 to 150	Amperes	75	2%	(AU)	KS 9442L6 Shunt	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	2	Triplet Weston	324 301	C,D, AU
14789, L4	250	0 to 250	Amperes	50	2%	(AU)	KS 9442L9 Shunt	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.76 max	Triplet Simpson Weston	321L 23W 301	B,C, D,AU

Footnotes and explanations of column headings and abbreviations are explained in the Introduction.

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KS SPEC NO.	SENSITIVITY (Amperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
(P) 14789, L1	400	0 to 400	Amperes	40	2%	(AU)	KS 9442L20 Shunt	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.76 max	Triplet Simpson Weston	321L 23W 301	B,C, D,AU
14957, L2	500	0 to 500	Amperes	50	2%	(AU)	KS 9442L10 Shunt	Round 3-1/16 or 2-15/16	-	B	SUR	NM or MAG	HOR & VERT	2	2	Triplet Weston	324 301	C,D, AU
(P) 14789, L2	800	0 to 800	Amperes	40	2%	(AU)	KS 9442L12 Shunt	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.76 max	Triplet Simpson Weston	321L 23W 301	B,C, D,AU
14789, L3	1000	0 to 1000	Amperes	50	2%	(AU)	KS 9442L30 Shunt	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.76 max	Triplet Simpson Weston	321L 23W 301	B,C, D,AU

DC AMMETERS
3" to 3-63/64" Inclusive, Front Dimension

KS SPEC NO.	SENSITIVITY (Amperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
7898	1	0.25 to .5 0.5 to 1.0	Amperes	50	1%	100±1% MV Drop 100±1% MV Drop	None	Round 4-3/8	3.56 Diam	Met.	FL	NM or MAG	HOR	3	1.13	Weston	643	X,AV
MD-19073, L1	1.5	.75 to 1.5	Amperes	75	4%	50±2% MV Drop	19073L2 Shunt, L3Leads	Rectangular 4-3/16 x 4-5/8	2.80 Diam	B	SF	NM or MAG	VERT	2	.78 max	Triplet	420	BL
(P) 14728	3	1.5 to 3	Amperes	75	4%	50±2% MV Drop	14728 Shunt	Rectangular 4-3/16 x 4-5/8	2.80 Diam	B	SF	MAG .09	VERT	2	.78 max	Triplet	420	AW
16112, L1	3	1.5 to 3	Amperes	75	1%	12.5 ±10% (total)	16112L2 Shunt	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB,AW
19136, L1	5	0 to 5	Amperes	50	2%	50 MV	None	Rectangular 4-1/4 x 4-11/16	2.76 Diam	B	FL	NM or MAG	HOR	2	.75 max	Weston	1941	
19563, L2	5	0 to 5	Amperes	50	2%	50 MV	None	Rectangular 4.96 x 4.20	2.76 Diam	B	FL	NM or MAG	VERT	2	.50 min	Weston	1941	D,X
16113, L1	6	0 to 6	Amperes	60	1%	6.25 ±10% (total)	16113L2 Shunt	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB,AW
(P) 16330	30	0 to 30	Amperes	30	1%	0.00166 ±20%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB
16461, L1	30	0 to 30	Amperes	30	1%	50 MV ±1%	KS 9442L21 Shunt	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB,AY
16461, L2	50	0 to 50	Amperes	50	1%	50 MV ±1%	KS 9442L3 Shunt	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB,AY
16694	50	0 to 50	Amperes	50	1%	60 MV max	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB
19563, L1	50	0 to 50	Amperes	50	2%	50 MV ±2%	9442L3 Shunt 16850L3 Leads	Rectangular 4.96 x 4.20	2.76 Diam	B	FL	NM or MAG	VERT	2	.50 min	Weston	1941	D,X
16461, L3	100	0 to 100	Amperes	50	1%	50 MV	9442L5 Shunt	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB,AY
(P) 14665	150 300 600	0 to 150 0 to 300 0 to 600	Amperes	75 60 60	1%	3.125 ±1% 6.25 ±1% 12.50 ±1%	14465 Shunt	Rectangular 4-3/16 x	2.80 Diam	B	FL	NM	VERT	4	.78 max	Triplet	420	AX

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC NO.	SENSITIVITY (Amperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
19516, L5	150	0 to 150	Amperes	50	1%	50 MV ±1%	9442L6 Shunt 19516L3 Leads	Rectangular 4.96 x 4.20	2.76 Diam	B	FL	NM or MAG	VERT	2	.50 min	Weston	1941	D,X
16461, L5	150	0 to 150	Amperes	75	1%	50 MV ±1%	KS 9442L6 Shunt	Rectangular 4-1/4 x 4-5/8	3-63/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB,AY
19061, L2	200	0 to 200	Amperes	40	1%	25 MV	KS 9442L25 Shunt	Rectangular 4-1/4 x 4-5/8	3-63/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB
16461, L8	400	0 to 400	Amperes	40	1%	50 MV ±1%	KS 9442L25 Shunt	Rectangular 4-1/4 x 4-5/8	3-63/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB,AY
16461, L9	600	0 to 600	Amperes	60	1%	50 MV ±1%	KS 9442L11 Shunt	Rectangular 4-1/4 x 4-5/8	3-63/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB,AY
16461, L10	800	0 to 800	Amperes	40	1%	50 MV ±1%	KS 9442L12 Shunt	Rectangular 4-1/4 x 4-5/8	3-63/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB,AY
19516, L1	1000	0 to 1000	Amperes	50	1%	50 MV ±1%	9442L13 Shunt 19516L3 Leads	Rectangular 4.96 x 4.20	2.76 Diam	B	FL	NM or MAG	VERT	2	.50 min	Weston	1941	D,X
19061, L1	1250	0 to 1250	Amperes	50	1%	25 MV	9442L29 Shunt; Leads	Rectangular 4-1/4 x 4-5/8	3-63/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB
16461, L6	1500	0 to 1500	Amperes	75	1%	50 MV ±1%	9442L14 Shunt	Rectangular 4-1/4 x 4-5/8	3-63/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB,AY
19516, L4	1500	0 to 1500	Amperes	50	1%	50 MV ±1%	9442L14 Shunt 19516L3 Leads	Rectangular 4.96 x 4.20	2.76 Diam	B	FL	NM or MAG	VERT	2	.50 min	Weston	1941	D,X
19516, L2	2000	0 to 2000	Amperes	50	1%	50 MV ±1%	9442L15 Shunt 19516L3 Leads	Rectangular 4.96 x 4.20	2.76 Diam	B	FL	NM or MAG	VERT	2	.50 min	Weston	1941	D,X
16461, L7	2500	0 to 2500	Amperes	50	1%	50 MV ±1%	KS 9442L29 Shunt	Rectangular 4-1/4 x 4-5/8	3-63/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB,AY

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC. NO.	SENSITIVITY (Amperes)	SCALE			ACCURACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPONENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOTNOTES
		RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
(P) 14472, L2	0.5 (60 cycles)	0 to 50	Amperes	50	3%	1.14 ± 20%	KS14479 Current Transf.	Round 3-1/2	2.75 Diam	MM	FL	MAG .09	VERT	2	.76 max	Weston	476 Type 2	B, D, AJ
(P) 14472, L1	1 (60 cycles)	0 to 100	Amperes	50	3%	0.22 ± 20%	KS14479 Current Transf.	Round 3-1/2	2.75 Diam	MM	FL	MAG .09	VERT	2	.76 max	Weston	476 Type 2	B, D, AJ
(P) 14109	15	0 to 15	Amperes	30	2%	(AG)	None	Round 3-1/2	2.75 Diam	MM	FL	MAG .09	VERT	2	.76 max	Gen. El. Weston	AO-22 476 Type 2	B, D, J, AG
(P) 14110	30	0 to 30	Amperes	30	2%	(AG)	None	Round 3-1/2	2.75 Diam	MM	FL	MAG .09	VERT	2	.76 max	Gen. El. Weston	AO-22 476 Type 2	B, D, J, AG

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC NO.	SENSITIVITY (Amperes)	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO. NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOT-NOTES
		RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
(P) 14470	2 (60 cycles)	1 to 2	Amperes	50	2%	0.0656 ±20%	None	Rectangular 3-15/16 x 4-1/4	3.25 Diam	Met.	SF	NM or MAG	VERT	2	.89	Weston	964	D, F, AJ, AM AZ
16614	30 (25 to 500 cycles)	0 to 30	Amperes	50	1%	0.002 ±20%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	MAG .09	VERT	2	3/4	Weston	744	F, AB, AJ

AC AMMETERS
1/4" to 1-63/64" Inclusive, Front Dimension

Footnotes and explanations of column headings and abbreviations are explained in the Introduction.

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KS SPEC NO.	SENSITIVITY (Amperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
14483	160 ma	0 to 2 amp 0 to 10vac	-	-	±.025	13 ^h ±15% 65 ^h	None	Rectangular 7-19/64 x 9-35/64 x 3-45/64	-	-	SF	NM	HOR	2	-	Weston	341	X

AC VOlt-AMMETER

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Footnotes and explanations of column headings and abbreviations are shown in the Introduction.



SECTION III
MILLIAMETERS

**SECTION III
MILLIAMMETERS**

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DC MILLIAMMETERS
1-7/8" to 2-63/64" Inclusive, Front Dimension

KS SPEC NO.	SENSITIVITY (Milliamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
8157	0.5	0 to 0.5	-	-	-	375 ±2%	None	Round 2-11/16	2.20 Diam	B	FL	-	VERT	2	17/ 32	Weston	506	
7525	1	-10 to +40	Percent Dis- tortion	50	2%	27 ±20%	None	Round 2-15/16	-	Met.	FL	MAG	VERT	4	1.31	Weston	301	BA
8538	1	0 to 1	-	50	2%	125	None	Round 2-11/16	2.20 Diam	B	FL	NM or MAG	VERT	2	.69 ±.07	Weston	-	
16972, L1	1	-10 to +5	DB	8	3%	33 ±20%	None	Rectangular 1.098 x 2.09 x 2.03	.965 x 1.6 x 1.6	B	SF	NM	HOR	2	.325	Inter- national	1120 HBL 001	BB
19556	1	0 to 100 0 to 20	Percent Break Pulses per Sec	40	3%	40 ±20%	None	Rectangular 2.00 x .965 x 2.60	-	B	SF	NM	HOR	2	.325	Inter- national	1120 HTL 001	BB,BC
8199	5 20 100	0 to 5 0 to 20 0 to 100	Milli- amperes	50	2%	20.5 9 2	None	Round 2-15/16	-	B	SUR	NM	HOR	4	1.31	Weston	301	
13781	500	30 to 0 to 30	-	28	2%	105 ±20%	None	Round 2.55	2.06 Diam	Met.	FL	NM	VERT	2	.69 ±.07	Weston	506	

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

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KS SPEC NO.	SENSITIVITY (Milliamperes)	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPONENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOT-NOTES
		RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
14188	1	-	-	7	2%	70 ±20%	None	Round 3.51	2.75 Diam	B	FL	NM	VERT	2	.66	General Electric	DO-71 Type 8	
14559	1	0 to 3	Calls Waiting	60	2%	105 ±20%	None	Round 3-1/2	2.80 Diam	B	FL	MAG .09	VERT	2	3/4	Triplet Weston	321T 301	F
14625	1	0 to 100 100 to 0	Percent Break	50	2%	50 max	None	Round 3-1/2	2.80 Diam	B	FL	NM	VERT	2	.78 max	Triplet	-	F, J, M N, BF
14344 MD	1	100 to 0 to 100	(none)	40	2%	26	None	Round 3-3/8	2.75 Diam	B	FL	MAG .09	VERT	2	.75	Weston	301	MD
14717	1	0 to 5 v 0 to 50	(none)	50	2%	50 ±1%	Resistor & Shunt	Round 3-1/2	2.80 Diam	MM	FL	NM	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B, F
7984	1.5 30	1.5 to 0 to 1.5 30-0-30	Milli-amperes	60	2%	23 ±1% 3.33 ±1%	None	Round 3-1/4	2.56 Diam	Met.	FL	MAG 7/32	VERT	3	.69	Weston	301	AV
7236	3	0 to 3	Milli-amperes	60	2%	18 ±20%	None	Round 3-1/4	2.63 Diam	Met.	FL	MAG 1/4	VERT	2	.75	Weston	301	
8484	3	0 to 6	Milli-amperes	60	2%	25 ±1%	None	Round 3-1/4	2.56 Diam	Met.	FL	NM	HOR	2	.69	Weston	301	
(P)14784, L2	10	0 to 10	Milli-amperes	50	2%	10	None	Round 3-1/2	2.80 Diam	MM	FL	NM	HOR & VERT	2	-	Triplet Weston	321L 301	B, F
(P)14507, L23	10	0 to 10	Milli-amperes	50	2%	10	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B, C, F
8532	10.77	-10 to 0 to +5	DB	26	1%	2 ±20%	None	Round 3-3/8	2.75 Diam	B	FL	MAG	VERT	2	.69 ±.07	Weston	301	
7361, L1 7361, L2	12	0 to 12	-	-	.025%	-	None	-	-	-	-	-	-	-	-	Weston	1	BD
(P)14784, L1	15	0 to 15	Milli-amperes	75	2%	6.6	None	Round 3-1/2	2.80 Diam	MM	FL	NM	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B, F
(P)14507, L1	15	0 to 15	Milli-amperes	75	2%	6.6	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B, C, F

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

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DC MILLIAMMETERS
3" to 3-63/64" Inclusive, Front Dimension

KS SPEC NO.	SENSITIVITY (Milliamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
7718	15	0 to 100	Percent Break	50	1%	1	None	Round 3-1/4	2.56 Diam	Met.	FL	-	HOR	2	.75	Weston	301	J, BE
(P) 14784, L3	20	0 to 20	Milli- amperes	40	2%	5	None	Round 3-1/2	2.80 Diam	MM	FL	NM	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B, F
(P) 14507, L2	20	0 to 20	Milli- amperes	40	2%	5	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B, C, F
(P) 14507, L3	30	0 to 30	Milli- amperes	60	2%	3.3	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B, C, F
--- 7230 MD	30	30 to 0 to 30	Milli- amperes	60	2%	1.2 ±20%	None	Round 3-1/4	2.56 Diam	Met.	FL	-	HOR	2	.75	Weston	301	MD
(P) 14507, L4	50	0 to 50	Milli- amperes	50	2%	2	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B, C, F
14507, L5	75	0 to 75	Milli- amperes	75	2%	1.33	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301-57	B, C, F
8467	75	0 to 75 to 75	Milli- amperes	60	2%	2	None	Round 3-1/4	2.56 Diam	Met.	FL	NM	HOR & VERT	2	.69	Weston	301	R, S
(P) 14507, L6	100	0 to 100	Milli- amperes	50	2%	1	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B, C, F
(P) 14507, L7	150	0 to 150	Milli- amperes	75	2%	0.6	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B, C, F
(P) 14507, L8	200	0 to 200	Milli- amperes	40	2%	0.5	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B, C, F
(P) 14507, L9	300	0 to 300	Milli- amperes	30	2%	0.33	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B, C, F
(P) 14507, L10	500	0 to 500	Milli- amperes	50	2%	0.2	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B, C, F

Footnotes and explanations of column headings and abbreviations are explained in the Introduction.

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KS SPEC NO.	SENSITIVITY (Milliamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
6473 MD	500	0 to 200	Calls Waiting	32	2%	9.3 ±2%	None	Round 3-1/4	2.56 Diam	Met.	FL	NM	VERT	2	.75	Weston	301	MD
(P) 14507, L11	800	0 to 800	Milli- amperes	40	2%	0.125	None	Round 3-1/2	2.80 Diam	MM	FL	NM or MAG	HOR & VERT	2	.78 max	Triplet Weston	321L 301	B, C, F
14772	200ua	0 to 10 0 to 40	Milli- amperes	50 40	2%	360 ±20%	Shunt	Round 3-1/2	2.80 Diam	B	FL	NM	HOR	2	.78 max	Triplet	321PL	F, M, N

DC MILLIAMMETERS
3" to 3-63/64" Inclusive, Front Dimension

January 1965

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

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DC MILLIAMMETERS
4" to 4-63/64" Inclusive, Front Dimension

KS SPEC NO.	SENSITIVITY (Milliamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
8798	1	50 to 0 to 50	Yards per Second	50	1%	48 ±20%	None	Round 4-9/16	3.75 Diam	B	FL	MAG	VERT	2	1-1/8	Weston	643	
19018	1	-20 to +3	DBM	28	2%	46 ±20%	None	Round 4.58	3.57 Diam	Met.	FL	NM or MAG	HOR	2	1/2	Weston	1541 Class 52	D
14333	1	0 to 5 10 to 30 50 to 130	MilliAm DB AC Volts	50 15 18	2%	150 ±1%	None	Rectangular 4-3/16 x 4-5/8	2.75 Diam	B	FL	NM	HOR	2	1/2	Simpson	29	F,AX, BH
16299	1	-∞ to 0 to +3 -.5 to 0 to +.5	DBV Diff DB	49 50	1%	80 ±1%	None	Rectangular 3-15/16 x 4-1/4	3.25 Diam	B	SF	NM	HOR & VERT	2	3/4	Weston	961	X,AX, BP
14449	1.5	0 to +15 -15 to 0	DB	75 75	±.15db	180 ±1%	None	Rectangular 3-15/16 x 4-1/4	3.25 Diam	B	SF	NM or MAG	VERT	2	3/4	Weston	961	BJ, BL
14284	1.5	0 to +10 -10 to 0	DB	50 50	1%	180 ±20%	None	Rectangular 3-15/16 x 4-1/4	3.25 Diam	B	SF	NM	HOR & VERT	2	3/4	Weston Gen.E1	961 D068	F,BK, BL
14511	1.5	-10 to 0	DB	50	1%	180 ±20%	None	Rectangular 3-15/16 x 4-1/4	3.25 Diam	B	SF	NM	HOR & VERT	2	3/4	Weston	961	F,BL
19199	1.5	-10 to 0	DB	5	0.1db	180 ±20%	None	Rectangular 3-15/16 x 4-1/4	3.25 Diam	B	SF	NM or MAG	HOR & VERT	2	3/8	Weston	961	BL, BQ
19003, L3	3	0 to 3	Milli- amperes	60	1%	16 ±20%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM	VERT	2	3/4	Weston	741 Type 6	AB
13583	4.5	0 to 1	(none)	2	1%	20	None	Fan 4-3/32 x 3-3/8	-	Met.	SUR	MAG	VERT	2	2	Weston	267	
7420	5	5 to 0 to 5	Milli- amperes	100	1%	9.3 ±20%	None	Fan 4-3/32 x 3-3/8	-	Met.	SUR	NM	VERT	2	.88	Weston	267	AV
(P) 14645	10 50	0 to 10 0 to 50	Milli- amperes	50 50	1%	10 ±10% 2 ±10%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	MAG 7/32	VERT	3	3/4	Weston	741	AB
16355	10	10 to 0 to 10	Milli- amperes	40	1%	50 ±1%	16355 L2 Shunt	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM	VERT	2	3/4	Weston	746 Type 2	
19003, L1	30	0 to 30	Milli- amperes	60	1%	100 MV ±10% Drop	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM	VERT	2	3/4	Weston	741 Type 6	AB
19005, L1	32.2	0 to 500	Milli- amperes	50	1%	100 MV ±10% Drop	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB

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KS SPEC NO.	SENSITIVITY (Milliamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
16034	70	70 to 0 to 70	Milli- amperes	70	1%	1.5 ±20%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM	VERT	2	3/4	Weston	746	BN
16037	75	0 to 15 0 to 75	Milli- amperes	75 75	1%	100 ±5%	None	Fan 3-3/8 x 4-3/32	-	Met.	SUR	MAG .06	VERT	3	15/ 32	Weston	267	X
16192	120	20 to 0 to 20	Milli- amperes	70	1%	0.833 ±10%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM	VERT	2	3/4	Weston	746	BN
16353	150	0 to 150	Milli- amperes	75	1%	0.66 ±10%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM	VERT	2	3/4	Weston	746 Type 2	-
16354	300	0 to 300	Milli- amperes	60	1%	0.33 ±10%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM	VERT	2	3/4	Weston	746 Type 2	-
16156	750	0 to 750	Milli- amperes	75	1%	0.067 ±10%	None	Round 4-9/16	3.75 Diam	B	FL	NM	VERT	2	1- 1/8	Weston	643	BM
2777	15 75 750	0 to 15 0 to 75 0 to 750	Milli- amperes	150 150 150	1%	3.2 100 MV Drop 100 MV Drop	None	Fan 3-3/8 x 4-5/64	-	Met.	SUR	NM or MAG	HOR	4	1.34	Weston	267	X, BR

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

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DC MILLIAMETERS
5" to 5-63/64" Inclusive, Front Dimension

KS SPEC NO.	SENSITIVITY (milliamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
8198	0.5 2.5	100-0-100 20-0-20	Percent Bias	40	1%	415 130	None	Fan 4-7/16 x 5-5/8	-	Met.	SUR	NM or MAG	HOR	3	2.88	Weston	269	J
19336, L1	1	0 to 10	(none)	50	1%	115 ±20%	None	Rectangular 5.62 x 4.49	2.76 Diam	B	FL	NM or MAG	VERT	2	3/4 max	Weston	1951	X
7874	1.5	0 to 15 15 to 0	DB	75 75	1%	180 ±1%	None	Fan 4-7/16 x 5-5/8	-	Met.	SUR	NM	HOR	2	1.03	Weston	269	M,BS
7995	1.5	0 to 15 15 to 0	DB	75 75	1%	180 ±1%	None	Fan 4-7/16 x 5-5/8	-	Met.	SUR	MAG	VERT	2	1.03	Weston	269	M,BS BT
19310, L1	10 50	0 to 10	(none)	50	1%	100 MV ±5%	None	Rectangular 5.62 x 4.49	2.76 Diam	B	FL	NM or MAG	VERT	3	3/4 max	Weston	1951	X
8292	10	0 to 10	Milli- amperes	50	1%	2.8 ±20%	None	Fan 4-7/16 x 5-5/8	-	Met.	SUR	NM or MAG	(S)	2	1.34	Weston	269	S
8283	25	100-0-100	(none)	100	1%	6 max 4 min	None	Fan 4-7/16 x 5-5/8	-	Met.	SUR	NM	VERT	2	1.34	Weston	269	AV
7419	25	100-0-100	(none)	100	1%	6 max 4 min	None	Fan 4-7/16 x 5-5/8	-	Met.	SUR	NM or MAG	VERT	2	1	Weston	269	AV
19309, L1	20 to 30	300-450	Milli- amperes	150	0.5%	36.68	19039L2 Shunt 19307L2 Leads	Rectangular 5.62 x 4.49	2.76 Diam	B	FL	NM or MAG	VERT	2	3/4 max	Weston	1951 Type 31	BV
7764	25	100-0-100	(none)	100	1%	6 max 4 min	None	Fan 4-7/16 x 5-5/8	-	-	SUR	NM or MAG	-	2	2- 1/4	Weston	269	J
8513	30 30	30-0-30 30-0-30	Milli- amperes	60 60	-	10 ±25% 10 ±25%	None	Fan 4-7/16 x 5-5/8	-	Met.	SUR	MAG 1/4	VERT	4	1.34	Weston	269	AV, BR BU
6141	100	0 to 100	Milli- amperes	50	1%	100±5% MV Drop	None	Fan 4-11/16 x 5-13/16	-	Met.	SUR	NM or MAG	HOR	2	2- 1/4	Weston	269	X
2463	375	0 to 375	Milli- amperes	75	1%	100±5% MV Drop	None	Fan 4-7/16 x 5-5/8	-	Met.	SUR	NM or MAG	HOR	2	2- 1/4	Weston	269	X, BR
19307, L1	500	0 to 500	Milli- amperes	50	1%	50 MV Drop	19307L3 Shunt, L2Leads	Rectangular 5.62 x 4.49	2.76 Diam	B	FL	NM or MAG	VERT	2	.75 max	Weston	1951	X

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

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KS SPEC NO.	SENSITIVITY (Milliamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
8589	1.2	0 to 100 0 to 20 0 to 40	Percent Break Pulses per Sec	200	.025%	200	None	Round 7-23/32	6-3/8 Diam	Met.	FL	-	HOR	2	-	Weston	24	
19233, L1	1.5	0 to 15 15 to 0	DB	75	±.15db	180 ±1%	None	Rectangular 9-3/4 x 4-3/8	-	Met.	-	-	VERT	2	3/4	Weston	525 Class 60	BZ
19000	30	300 to 450	Milli- amperes	150	.025%	2.7 max	None	Panel 7.3 x 9.54 x 5.01	-	B	SF	NM or MAG	VERT	2	.49	Weston	315 Type 3	X, CA
8330	70 70	70-0-70 70-0-70	Milli- amperes	70 70	1%	1.3	None	Fan 6-1/4 x 7-7/8	-	Met.	SUR	MAG 7/32	45° from HOR	4	3.5	Weston	271	AV, BR BU
16356	150	150 to 300	Milli- amperes	150	0.25%	30 ±.025%	16356L2 Shunt	Panel 7.3 x 9.5	4.80 Diam	B	FL	NM	VERT	2	.49	Weston	315 Type 3	X
19001	500	0 to 500	Milli- amperes	100	.025%	35 ±.025%	19001L2 Shunt	Panel 7.3 x 9.54 x 5.01	-	B	SF	NM or MAG	VERT	2	.49	Weston	315 Type 3	X
14993	200 ua	-10 to +3	DB	80	0.5%	10	None	Rectangular 6-1/2 x 7-1/4	-	(BN)	FL	NM	HOR	3	11/16	West on	508	X, BN
6842	200 ua	-10 to +3	DB Milli- amperes	80	0.5%	10 ±20%	2 Shunts	Rectangular 6-1/2 x 7-1/4	-	Met.	FL	NM	HOR	3	-	Weston	508	X, BX, CB
7897	200 ua	-10 to +3	DB	80	0.5%	10	Shunt	Rectangular 6-1/2 x 7-1/4	-	Met.	FL	NM	HOR	3	-	Weston	508	X, BX, CB
13358	200 ua	-10 to +3	DB	80	0.5%	10	Shunt	Rectangular 6-1/2 x 7-1/4	-	Met.	FL	NM	HOR	3	-	Weston	508	X, BX
13700	200 ua	-10 to +3	DB	80	0.5%	10	2 Shunts	Rectangular 6-1/2 x 7-1/4	-	Met.	FL	NM	HOR	3	-	Weston	508	X, BX, BY

Footnotes and explanations of column headings and abbreviations are explained in the Introduction.

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KS SPEC. NO.	SENSITIVITY (Milliamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	* POSITION	NUMBER	LENGTH			
7482	0.5	0 to -10	DB	17	1%	3000 max at 60 cycles at -10 db (Impedance)	None	Round 3-1/4	2.56 Diam	Met.	FL	NM	HOR	2	.75	Weston	301	AD
(P) 14107	500	0 to 500	(None)	50	2%	--	None	Round 3-1/2	2.75 Diam	MM	FL	MAG 1/8	VERT	2	.76 max	Gen.El. Weston	AO-22 746 Type2	B,D, CC

AC MILLIAMMETERS,
3" to 3-63/64" Inclusive, Front Dimension

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC. NO.	SENSITIVITY (Milliamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
14738	.544	-10 to 0 to +5	DB	18	5%	--	None	Rectangular 3-15/16 x 4-1/4	3.25 Diam	B	SF	NM	HOR & VERT	2	3/4	Weston	962	GD
(P) 16089	150 (25 to 50 cycles)	0 to 150	Milli- amperes	57	1%	49	None	Round 4-3/8	3.54 Diam	Met.	FL	NM	VERT	2	1- 1/8	Weston	642	-

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

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MILLIAMETERS - RECORDING - PORTABLE

KS SPEC NO.	SENSITIVITY (Milliamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
14674	1.5	0 to 15 0 to 150	Milli- amperes	75	-	-	Shunt	Rectangular 5-1/2 x 3-11/16x2-15/32	-	-	-	-	-	-	Weston	301	AS, CE	
16058	5	0 to 300	-	60	-	70	16058L2 Shunt	Rectangular 16 x 10-9/16 x 11-5/16	-	Met.	FL	-	VERT	2	-	Ester- line Angus	AW	AT
19008, L3	5	0 to 500	Milli- amperes	5	1-1/2%	70	19008, L2 Shunt	Rectangular 10-9/16 x 15-23/32 x 10-3/32	-	Met.	FL	-	VERT	2	-	Ester- line Angus	A601G	AT
8003	10	5 to 0 to 5	-	50	-	65	None	Rectangular 16 x 10-9/16 x 8-3/4	-	-	FL	-	-	2	-	Ester- line Angus	-	AT, CF
8004	10	5 to 0 to 5	-	50	-	65	None	Rectangular 16 x 10-9/16 x 8-3/4	-	-	FL	-	-	2	-	Ester- line Angus	-	AT, CG
8005	10	5 to 0 to 5	-	50	-	65	None	Rectangular 16 x 10-9/16 x 8-3/4	-	-	FL	-	-	2	-	Ester- line Angus	-	AT, CH
8006	10	5 to 0 to 5	-	50	-	65	None	Rectangular 16 x 10-9/16 x 8-3/4	-	-	FL	-	-	2	-	Ester- line Angus	-	AT, CJ
8529	31.5	0 to 30	Trunks Busy	30	0.5%	4	None	Rectangular 5-1/16 x 6-1/32 x 3-1/2	-	B	-	NM	30° from VERT	-	-	Weston	430	AS, CK

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

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KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS	EXTERNAL COMPONENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOT. NOTES
	RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
14234	0 to 75 ma 0 to 150 ma 0 to 150 v (ac & dc) 0 to 50000 ^u	-	-	±2% ±2% ±5%	-	Test Leads	Rectangular 3-11/16 x 5-1/2 x 2-3/4	-	-	-	(AS)	-	5	-	Weston Simpson	697 Type 10 324	L,AS
16979, L1	1 to 300 1.5 to 300 - 20000 -2meg -10 to +2	AC Volts DC Volts AC-1 Volt Res DBO	30 30 42 53 10	±4% ±3% ±4% - ±4%	-	None	Rectangular 2.916 x 4.26 x 1.306	-	-	(AS)	NM or MAG	HOR	-	-	Triplet	310D	AS

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

MICROAMMETERS

January 1965

KS SPEC NO.	SENSITIVITY (Microamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
19058, LI	50	2 to 0 to 2	(none)	4	(CL)	1500 ±3%	None	Rectangular 2-1/4 x 2 x 1-1/8	-	-	SM, SUR	-	HOR & VERT	2	-	Marion Simpson	MCE-1 1521C	CS, CL
19103, LI	75	75 to 150	LO MED HI	14	2%	800 ±20%	None	Round 2.695	2.21 Diam	Met.	SF	NM or MAG	VERT	2	.65 max	Triplet	221HR	J
16824	100	-	Output Power	2	2%	-	None	Square 2-3/8 x 2-3/8	2.17 Diam	MM	FL	NM	-	2	3/4	Marion	52S	CS
13069	800	0 to 20	-	20	2%	35 ±0.5	None	Round 2-35/64	2.06 Diam	Met.	FL	NM	-	2	17/ 32	Weston	506	
14161	800	0 to 20	DC AC	20	3-1/2%	35 ±0.5	None	Round 2.68	2.17 Diam	Met.	FL	NM	80° to VERT	2	.45 lugs	Weston	1021	

Footnotes and explanations of column headings and abbreviations are explained in the Introduction.

DC MICROMETERS
2" to 3" Inclusive, Front Dimension

IV-1

KS SPEC NO.	SENSITIVITY (Microamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
14552	20	-5 to 0 to +5 -1 to 0 to +1	DB	20	2%	2100 ±2%	None	Square 3.13 x 3.13	2.80 Diam	B	FL	NM	HOR	2	.75 max	Triplet	-	F, J, CQ
14248	50	50 to 0 0 to 2.5	Percent Volts DC	25 20	2%	1100 ±20%	None	Square 3.13 x 3.13	2.80 Diam	B	FL	NM	HOR & VERT	2	.50 max	Gen. E1 Weston	D071 301	F, CN
14486	50	-8 to 0 to +4 0 to 50 0 to 25	DBM	24 50 50	2%	2000 ±2%	None	Round 3-1/2	2.80 Diam	MM	FL	NM	HOR & VERT	2	.78 .38	Triplet Weston	321L 301	B, F, M
(P) 14714	50	2 to 8 0 to 2.5	(none)	30	2%	1500 ±1%	None	Round 3-1/2	2.80 Diam	MM	FL	NM	VERT	2	.78 .38	Triplet Weston	321L 301	B, F, M
16942, L2	50	0 to 600 0 to 30 -4 to +6	DB	30 30 11	2%	2400 ±1%	None	Round 3-1/2	2.80 Diam	Met.	FL	NM or MAG	VERT	2	3/4	Weston Phaotron Triplet	1531	BL
16943, L2	50	-50 to 0 to +50	Micro- amperes DC	50	2%	1090 ±20%	None	Round 3-1/2	2.80 Diam	Met.	FL	NM or MAG	VERT	2	3/4	Weston Phaotron Triplet	1531	BL
19019	50	-2 to 0 to +2	DBM	8	2%	1175 ±20%	None	Round 3-1/2	2.80 Diam	Met.	FL	NM or MAG	HOR	2	3/4	Weston Phaotron Triplet	1531	BL
9490	54 MV	0 to 20	(none)	20	5%	54 MV Drop	Resis- tor 1500	Round 3-1/2	2.80 Diam	B	FL	NM	HOR	2	.69 ±.07	Weston	301 Type 5	
19127, L1	100	42 to 58	(none)	-	-	-	None	Rectangular 3.5 x 2.5 x 1.22	-	-	SF, SM	-	-	2	.16	Simpson	1502C	CS
8294	100	25 to 0 to 25	(none)	50	2%	200 ±0.5%	None	Round 3-1/4	2.56 Diam	Met.	FL	NM or MAG	HOR to VERT	2	.69	Weston	301	M, S
7523	100	25 to 0 to 25	(none)	50	5%	55	None	Round 3-1/4	2.56 Diam	Met.	FL	MAG 1/4	VERT	2	.75	Weston	301	
14456, L1	100	10 to 40 0 to 150	Micro- amperes	50 75	2%	750 ±1%	None	Rectangular 3.12 x 3	2.75 Diam	B	FL	NM	HOR & VERT	2	.75	Weston	301	F
14353	100	-5 to 0 to +10 0 to 300	DBM Volts	13 60	2%	600 ±20%	None	Square 3.13 x 3.13	2.80 Diam	B	FL	NM	HOR & VERT	2	.50 min	Gen. E1 Weston	D071 301	F
16783	100	-	CAL	4	2%	825 ±20%	None	Square 3.13 x 3.13	2.75 Diam	B	FL	NM or MAG	HOR or VERT	2	.78 max	Triplet	327T	

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

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DC MICROAMMETERS
3" to 3-63/64" Inclusive, Front Dimension

KS SPEC NO.	SENSITIVITY (Microamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
19032	-	-1 to 0 to +2	Output Level DB	30	2%	660 ±20%	None	Square 3.13 x 3.13	2.76 Diam	B	FL	NM	VERT	2	.78 max	Weston	306	
14299	100	50 to 0 to 200	Percent	25 40	3%	750 ±1%	None	Square 3.13 x 3.13	2.80 Diam	B	FL	NM	HOR & VERT	2	.50 min	Gen.El Weston	D071 301	F,CM
14278	100	50 to 0	Percent	25	-	600 ±20%	None	Square 3.13 x 3.13	2.80 Diam	B	FL	NM	HOR & VERT	2	.50 min	Gen.El Weston	D071 301	F,CN
16394	100	0 to 100	(none)	50	2%	1000 ±2%	None	Round 3-1/2	2.80 Diam	MM	FL	NM	VERT	2	3/4	Triplet Weston	321L 301	B
16568	100	0 to 100	(none)	50	2%	2000 ±1%	None	Rectangular 3-1/8 x 3	2.75 Diam	B	FL	NM or MAG	VERT	2	3/4	Weston	1301 Glass 49	CR
16569	100	0 to 100	(none)	50	2%	2000 ±1%	None	Rectangular 3.80 x 3.44	2.80 Diam	MM	FL	NM or MAG	VERT	2	3/4	Weston	1331	CR
16722, L2	150	-1.5 to +1.5	DB	30	2%	516 ±20%	None	Round 3-1/2	2.80 Diam	Met.	FL	NM or MAG	HOR	2	.76	Weston Phaotron Triplet	2531	BL
16722, L1 MD	150	-1.5 to +1.5	DB	30	2%	516 ±20%	None	Round 3-1/2	2.80 Diam	Met.	FL	NM or MAG	HOR	2	3/8	Weston	1531 Glass 52	MD
14492	192	-20 to 0 to +6	DB	14	3%	65 ±15%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG	VERT	2	3-4	Triplet Weston	321L 301	F,M
8347	195	-20 to 0 to +5	DB	13	2%	60 ±10%	None	Round 3-1/4	2.56 Diam	Met.	FL	NM	HOR	2	.69	Weston	301	M
13341	200	0 to 20	Micro- amperes	40	2%	600	None	Round 3-1/2	2.80 Diam	Met.	FL	NM or MAG	VERT	2	.69 #.07	Hickock Marion	46HS HM	
13780	200	0 to 100 0 to 100	(none)	50	2%	500 ±2%	None	Square 3-1/4 x 3-1/4	3.13 Diam	Met.	FL	NM	VERT	4	.80	Weston	827 Type 26H	F,G
14490	212	-3 to 0 to +3	DB	18	(CP)	1000 ±10%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG	VERT	2	.78 .38	Triplet Weston	321L 301	B, F, M, CP

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

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KS SPEC NO.	SENSITIVITY (Microamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
14568	250	-20 to 0 to +20	Cycles per Second	40	2%	170 ±20%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	VERT	2	.78 .38	Triplet Weston	321L 301	B,F, J,M
13929	500	-	Monitor Volt- meter	-	(FH)	-	None	Square 3-1/4 x 3-1/4	3.13 Diam	Met.	FL	NM	VERT	2	(FJ)	Weston	841 Type 17Y1	FH,FJ, FK
8425, LI	800	25 to 0 to 25	Percent Bias	50	2%	19	None	Round 3-1/4	2.56 Diam	Met.	FL	MAG	VERT	2	.69 ±.07	Weston	301	J

DC MICROAMMETERS
3" to 3-63/64" Inclusive, Front Dimension

January 1965

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

January 1965

DC MICROAMMETERS
4¹/₄" to 4-63/64" Inclusive, Front Dimension

KS SPEC NO.	SENSITIVITY (Milliamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
19227, L5	15	-6 to 0	DBM	52	(FE)	700 max	Resis- tor	Rectangular 4 x 4-5/8	2.79 Diam	-	FL	NM or MAG	HOR & VERT	2	3/4	Westing- house	FX- 373	X, DB, DC, FE
14689, L1	20	0 to 120 0 to 4 50 to 0	Volts	60 40 10	1%	1500 ±20%	(CT)	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM	HOR	2	3/4	Weston	741	F, AB, AX, CT
14689, L2	20	0 to 120 0 to 4 50 to 0	Volts	60 40 10	1%	2500 ±20%	(CT)	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM	HOR	2	3/4	Weston	741	F, AB, AX, CT
14775	20	0 to 400 -50 to 0 to +50	Volts Percent	40 40	1%	1500 ±20%	(CX)	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM	HOR	2	3/4	Weston	741	F, AB, AX, CX
19227, L4	23.8	-6 to 0	DBM	52	(FE)	700 max	Resis- tor	Rectangular 4 x 4-5/8	2.79 Diam	-	FL	NM or MAG	HOR & VERT	2	3/4	Westing- house	FX- 373	X, DB, DC, FE
19227, L1	24.6	-6 to 0	DBM	52	(FE)	700 max	Resis- tor 8000	Rectangular 4 x 4-5/8	2.79 Diam	-	FL	NM or MAG	HOR & VERT	2	3/4	Westing- house	FX- 373	DB, DC FE
19227, L2	24.6	-6 to 0	DBM	52	(FE)	700 max	Resis- tor 8000	Rectangular 4 x 4-5/8	2.79 Diam	-	FL	NM	VERT	2	-	Westing- house	FX- 373	X, DB, DC, FE
7899	30 750 MV	0 to 5 0 to 50 0 to 750	Micro- amperes Percent Milli- volts	10 25 75	1%	1500min; 2200 max - 25000 ±1%	None	Round 4-3/8	3.56 Diam	Met.	FL	NM or MAG	HOR	3	1- 1/8	Weston	643	M, X, AX, CU DC -
14561	50	0.5 to 0 to 0.5	DB	50	2%	400 ±1%	None	Rectangular 3-15/16 x 4-1/4	3.25 Diam	B	SF	NM	VERT	2	.75	Weston	961	F
14643	50	-	(none)	-	1%	1050 ±20%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	MAG 7/32	VERT	2	3/4	Weston	741	F, AB
14795	-47.3 to 0 to +50	-0.5 to +0.5	DB	50	2%	400 ±1%	None	Rectangular 3-15/16 x 4-1/4	3.25 Diam	B	SF	MAG 7/32	VERT	2	3/4	Weston	961	F
16641, L1	100	-3 to +3	(none)	60	2%	200 ±1%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB
16641, L2	100	-50 to 0 to +50	Micro- amperes	50	2%	200 ±1%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

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KS SPEC NO.	SENSITIVITY (Milliamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITON	NUMBER	LENGTH			
8084	100	120 to 0 to 120 35 to 0 to 35	Distort Volts Milli- amperes	48 70	(CV)	2500 ±3%	None	Round 4-9/16	3.75 Diam	B	FL	NM or MAG	HOR	3	1- 1/8	Weston	643	J, M, CV
16778	100	-5 to +5 -.1 to +.1	DBM DB	42 20	1%	1000 ±1%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	NM or MAG	VERT	2	3/4	Weston	741 Type 6	AB, AX
14192	200	0 to 6 ∞ to 0	+DBM -DBM	17 17	2%	68	None	Rectangular 3-15/16 x 4-1/4	3.25 Diam	B	SF	NM	VERT	2	.72	Gen. E1 Weston	DO-68 861	F, M, CW
14713 MD	200	0 to 25 0 to 50 0 to 100	PPS IDG- TIME	50	1%	500 ±10%	None	Rectangular 4-3/16 x 4-5/8	2.75 Diam	B	FL	NM	HOR	2	.75 max	Triplet	420	F, J, M, X, CY
14712 MD	200	0 to 100 100 to 0	Percent	50 50	1%	500 ±10%	None	Rectangular 4-3/16 x 4-5/8	2.75-Diam	B	FL	NM	HOR	2	.75 max	Triplet	420	F, J, M, X, CZ
14974, L1	200	0 to 25 0 to 50 0 to 100	PPS IDG- TIME	50 50 50	1%	100 ±25%	None	Rectangular 3-15/16 x 4-1/4	3.25 Diam	B	SF	NM	HOR	2	3/4	Weston	961	F, J, X, AX, CY
14973, L1	200	0 to 100 100 to 0	Percent	50 50	1%	100 ±25%	None	Rectangular 3-15/16 x 4-1/4	3.25 Diam	B	SF	NM	HOR	2	3/4	Weston	961	F, J, X, AX, CY
16973, L1	250	-1 to 0 to +1	Pilot- DB	22	2%	150 ±20%	None	Rectangular 1.284 x 4.18	3.43 x 1.284 x 2.58	B	SF, SM	NM or MAG	HOR	2	21/ 32	Inter- nation- al	1145 HC 500	DC
16973, L2	250	6 to 0 to 6	HighGain DB LowGain	12	2%	150 ±20%	None	Rectangular 1.284 x 4.18	3.43 x 1.284 x 2.58	B	SF, SM	NM or MAG	HOR	2	21/ 32	Inter- nation- al	1145 HC 500	DC
8118	300	-4 to 0 to +10	DB	14	(DA)	1150 ±1%	None	Rectangular 3-15/16 x 4-1/4	3.25 Diam	B	SF	NM	HOR & VERT	2	23/ 32	Weston	801	F, DA
19227, L3	300	-6 to 0	DBM	52	(FE)	464 ±5%	Resis- tor 1400	Rectangular 4 x 4-5/8	2.79 Diam	-	FL	NM	VERT	2	-	Westing- house	FX- 373	X, DB, DC FE
7539	400	-10 to 0 to +4	DB	19	2%	15 ±0.4	None	Round 4-3/8	3.56 Diam	Met.	FL	NM or MAG	VERT	2	1.12	Weston	643	
(P)14644	500	0 to 500	Micro- amperes	50	1%	98 ±20%	None	Rectangular 4-1/4 x 4-5/8	3-61/64 x 3-45/64	B	FL	MAG 7/32	VERT	2	3/4	Weston	741	AB

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC. NO.	SENSITIVITY (Microamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	* POSITION	NUMBER	LENGTH			
7613	300 \pm 25	-7 to 0 to +10	DB	25	CW	2000 \pm 10%	18B Varis- tor	Fan 4-11/16 x 5-13/16	-	B	SUR	NM	HOR V& VERT	2	1- 1/32	Weston	269	M, R, DF

KS SPEC. NO.	SENSITIVITY (Microamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
8244	200	0 to 20 -1 to 0 to +1	Micro- amperes DB	100 100	1%	8.5 ±20%	None	Rectangular 6-1/8 x 7-3/8	2-29/32	CY	FL	MAG 7/32	VERT	3	13/ 16	Weston	319	DD, DE

DC MICROAMMETERS,
7" to 7-63/64" Inclusive, Front Dimension

January 1965

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC. NO.	SENSITIVITY (Microamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
7775	100 ±10	10 to 0 0 to 10	DB	75	1%	Note DB	None	Round 4-3/8	3.56 Diam	Met.	FL	NM or MAG	HOR	2	1.13	Weston	643	AD, AV, DG

AC MICROAMMETERS,
4" to 4-63/64" Inclusive, Front Dimension

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.



SECTION V
VOLT-MILLIAMMETERS

January 1965

KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS (Ohms)	EXTERNAL COMPO-NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE-RIAL	MOUNTING			TERMINALS		MANUFAC-TURER	MFRS. MODEL NO.	FOOT. NOTES
	RANGE	CAPTION	DIVI-SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
14346	0 to 10 0 to 100	Kilovolts Amperes	50	2%	100 ±1%	Resis-tor	Round 3-1/2	2.80 Diam	B	FL	NM	VERT	4	.69 ±.07	Gen.El. Weston	D0-71 301	
14345	0 to 10 0 to 100	Kilovolts Milli-amperes	50	2%	150 ±1%	Resis-tor	Round 3-1/2	2.80 Diam	B	FL	NM	VERT	4	.68 ±.07	Gen.El. Weston	D0-71 301	
14637	0 to 60 volts 0 to 75 milliampere 0 to 200 microampere	Milli-amperes	-	(DH)	300000 3.3 1250 ±2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	VERT	4	.78 max	Weston Triplet	301 321L	B,F, DH
14636	0 to 216 volts 0 to 75 milliampere 0 to 200 microampere	Milli-amperes	-	(DJ)	1.08 Megohm 3.3 1250 ±2%	None	Round 3-1/2	2.80 Diam	MM	FL	MAG .09	VERT	4	1.5	Weston Triplet	301 321L	B,F, DJ
13134	0 to 100 kilohms 0 to 1 milliampere	-	20	5%	54 MV	Resis-tor 1500	Round 3-1/2	2.80 Diam	B	FL	NM	HOR	-	-	Weston	301 Type 5	

DC VOLT-MILLIAMPERES
3" to 3-63/64" Inclusive, Front Dimension

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS	EXTERNAL COMPONENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOT-NOTES
	RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
7436	0 to 3 0 to 15 0 to 75 0 to 750	Milli-amperes	150	1%	16.67 ±1% 8.67 ±1% 1.95 ±1% 0.1995 ±1%	None	Fan 3-3/8 x 4-5/64	-	Met.	SUR	NM or MAG	HOR	5	1.34	Weston	267	X
19395	0 to 300 0 to 1.2 0 to 120 0 to 24	Milli-amperes Milli-amp-Volt Volts	60	1%	2 ±0.5% 200 ±1% 10000 ±0.5% 20000 ±0.5%	None	Rectangular 4.07 x 4.53	2.76 Diam	B	FL	NM or MAG	VERT	5	.70 max	Weston	1941	X
7114	0 to 2.5 0 to 25 0 to 50	Amperes Volts Volts	120	1%	-	3,6 ft. Leads	-	-	-	-	-	-	3	-	Weston	280	X,AS

DC VOICE-MILLIAMMETERS
4^{1/2}" to 4-63/64" Inclusive, Front Dimension

January 1965

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC. NO.	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINALS (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
	RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
6562	0 to 30 0 to 30 Volts 0 to 150 0 to 375mill- iamperes	Volts Milli- amperes	75	1%	1,000 ±1% 20,000 ±1% 100,000 ±1% 10 Max (All above include Multiplier Box)	Multi- plier Resis- tor	Fan 4-7/16 x 5-5/8	-	Met.	SUR	NM or MAG	HOR	2	2.25	Weston	269	DK, DL
6563	0 to 30 0 to 30 Volts 0 to 150 0 to 375mill- iamperes	Volts Milli- amperes	75	1%	1,000 ±1% 20,000 ±1% 100,000 ±1% 10 Max (All above include Multiplier Box)	Multi- plier Resis- tor	Fan 4-7/16 x 5-5/8	-	Met.	SUR	NM or MAG	VERT	2	2.25	Weston	269	DK, DL

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS (Ohms)	EXTERNAL COMPONENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOT-NOTES
	RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
12054	0 to 2 0 to 0.5 0 to 10	(none)	40 50 50	2%	-	None	Rectangular 6 x 3-3/4 x 3-1/4	-	B	(DN)	-	-	2	-	Simpson	-	DN
14180	150 to 0 to 150 Volts 150 to 0 to 150 Milli-amperes 10 to 0 to 10	Volts Milli-amperes Percent Bias	60 60 60	1% 1% (DM)	15000 ±0.1% 2 max 1.42	None	Rectangular 6 x 5-3/4	-	Met.	SUR	-	HOR	4	.31 max	Weston	921	DM

DC VOLT-MILLIAMMETERS
6" to 6-63/64" Inclusive, Front Dimension

January 1965

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

January 1965

DC VOLT-MILLIAMMETERS
7" to 7-63/64" Inclusive, Front Dimension

KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS (Ohms)	EXTERNAL COMPO. NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE. RIAL	MOUNTING			TERMINALS		MANUFAC. TURER	MFRS. MODEL NO.	FOOT. NOTES
	RANGE	CAPTION	DIVI. SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
14469	56 to 0 to 56 201.6 to 0 to 201.6 Volts 291.2 to 0 to 291.2 70 to 0 to 70 Milliamperes	(none)	70	1%	2000 ±1% per volt 4 max	None	Fan 6-7/32 x 7-55/64	-	Met.	SUR	MAG 7/32	45° from HOR	6	1.36	Weston	271	K, BR, BU
2801	0 to 120 volts 0 to 24 volts 0 to 24 volts 0 to 480 Milliamperes	(none)	120	1%	100000 20000 1000 10	None	Round 7-23/32	6-3/8 Diam	Met.	FL	-	-	5	1- 3/8	Weston	24	-

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC. NO.	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINALS (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
	RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
8492	150 to 0 to 150 Volts	Volts	60	1%	100,000 $\pm 1\%$	None	Rectangular 4-3/8 x 9-3/4	-	Alumi- num	-	NM	-	3	.75	Weston	525	M, R, AV
	150 to 0 to 150	Milli- amperes	60	1%	10 $\pm 1\%$	None											

DC VOLT-MILLIAMMETERS
9" to 9-63/64" Inclusive, Front Dimension

January 1965

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

January 1965

DC VOLT-MILLIAMMETER

KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS (Ohms)	EXTERNAL COMPO. NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE. RIAL	MOUNTING			TERMINALS		MANUFAC. TURER	MFRS. MODEL NO.	FOOT. NOTES
	RANGE	CAPTION	DIV. SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
8039	0 to 1.5	Volts	150	.025%	200	Leads, 5 ft. Lg.	-	-	B	-	-	-	-	-	Weston	622	X, AS
	0 to 3																
	0 to 7.5																
	0 to 15																
	0 to 30																
	0 to 75																
	0 to 150	Milli- amperes	150		300 MV Drop												
	0 to 300																
	0 to 750																
	0 to 1500																
	0 to 3000																
	0 to 750																
0 to 150	Milli- volts	150	10 20														
0 to 300																	
0 to 750																	
0 to 1500																	

Footnotes and explanations of column headings and abbreviations are explained in the Introduction.

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SECTION VI
MISCELLANEOUS

SECTION VI
MISCELLANEOUS

KS SPEC. NO.	SENSITIVITY (Volts)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
8840 MD	1.735	-20 to 0 to +3 0 to 100 (arbitrary voltage scale)	VU	14 9	-	3900 ±5% at zero VU (at 1000 cycles)	3600 ohm non-inductive Resistor	Round 3-5/8	2.80 Diam	B	FL	NM	HOR to VERT				R, AV, BL, DP, DQ, DR, DS	
8207, L2, L4	rms 1.735	-20 to 0 to +3 0 to 100 (arbitrary voltage scale)	VU	15 9	-	3900 ±5% at zero VU (at 1000 cycles)	3600 ohm Resistor	Rectangular 3-15/16 x 4-1/4	3.25 Diam	B	SF	NM	HOR to VERT	2	.719	Weston	802	F, R, AV, BL, DR, DS
8208, L2, L6	rms 1.735	-20 to 0 to +3 0 to 100 (arbitrary voltage scale)	VU	15 9	-	3900 ±5% at zero VU (at 1000 cycles)	3600 ohm Resistor	Rectangular 3-15/16 x 4-1/4	3.25 Diam	B	SF	NM	HOR to VERT	2	.656	Weston	862	F, R, AV, BL, DS, DT
8208, L4	rms 1.735	-20 to 0 to +3 0 to 100 (arbitrary voltage scale)	VU	15 9	-	3900 ±5% at zero VU (at 1000 cycles)	3600 ohm Resistor	Rectangular 3-15/16 x 4-1/4	3.25 Diam	B	SF	NM	HOR to VERT	2	.656	Weston	862	F, R, AV, BL, DP, DS, DT
16753	rms 1.735	-20 to 0 to +3 0 to 100 (arbitrary voltage scale)	VU	10 9	-	3900 ±5% at zero VU (at 1000 cycles)	3600 ohm Resistor	Medallion 1-3/4 x 1-3/4	1.546 Diam	MM	SF	NM	HOR	2	3/32	Marion	MM-1	F, DP

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC. NO.	SENSITIVITY (microamperes)	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPONENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOT-NOTES
		RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
16758	150	+20 to -3	DB	18	-	2100±20%	None	Rectangular 4 x 4-1/4	3.25 Diam	B	SF	NM	HOR.	2	.75	Weston	961	-

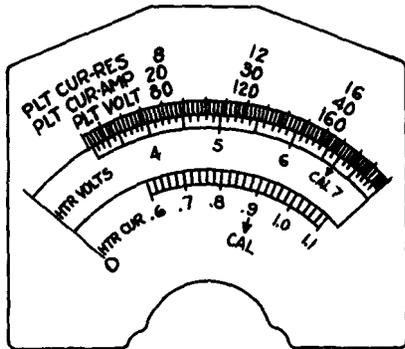
Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC. NO.	SENSITIVITY (microamperes)	SCALE			ACCU- RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO- NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE- RIAL	MOUNTING			TERMINALS		MANUFAC- TURER	MFRS. MODEL NO.	FOOT- NOTES
		RANGE	CAPTION	DIVI- SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
(P) 13241	50	-15 to 0 to +5	DB	21	±2%	1100 ±10% (for microampere range) 48,000 ±2% (for voltage range)	None	Round 3-1/2	2.75 Diam	B	FL	Alum- inum	HOR	3	.375 min .438 max	Weston	301	-
13242	50	-15 to 0 to +4	DB	21	±2%	1100 ±10% (for microampere range) 48000 ±2% (for voltage range)	None	Round 3-1/2	2.75 Diam	B	FL	NM	HOR	3	7/ 16	Weston	301	

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC. NO.	SENSITIVITY (millivolts)	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPONENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOT-NOTES
		RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
13973	5.85	4 to 20 10 to 50 40 to 200 3 to 7.5 .6 to 1.1	PLT CUR-REG PLT CUR-AMP PLT VOLT HTR VOLT HTR CUR	-	±1%	12 ±1%	Resistor	Rectangular 4-1/4 x 4	3-61/64 x 3-45/64	B	FL	NM	HOR	2	--	Weston	741	F, J, M, AB, AX, DV

KS-13973 Scale



Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC. NO.	SENSITIVITY (Volts)	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPO. NENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATE. RIAL	MOUNTING			TERMINALS		MANUFAC. TURER	MFRS. MODEL NO.	FOOT. NOTES
		RANGE	CAPTION	DIVI. SIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
7607	.425 to .848	-3 to 0 to +3	DB	12	±5%	1500 at zero DB	None	Round 3-1/4	2.56 Diam	Met.	FL	NM	VERT	2	.69 ±.07	Weston	301	DW
8664	.173 to 1.734	-20 to 0 -15 to 0 to +5	DBM	-	-	3900 ±5% at zero DBM (at 1000 cycles)	3600 ohm Resistor	Round 3-3/8	2.75 Diam	B	FL	NM	HOR to VERT	-	.69 ±.07	-	-	S, AD, AV, BL, DS

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC. NO.	SENSITIVITY (Volts)	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINAL (Ohms)	EXTERNAL COMPONENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOT-NOTES
		RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
14724	40	-5 to +5	-	10	DU	60 ±20	None	Round 2-1/2	2.21 Diam	Met.	FL	-	HOR to VERT	2	.297 min .540 max	Marion Weston	HS-2 1521	D, M, DX

NULL INDICATOR METER

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

January 1965

MISCELLANEOUS METERS

KS SPEC. NO.	SCALE			ACCU. RACY	RESISTANCE ACROSS TERMINALS	EXTERNAL COMPONENTS	MAXIMUM OVER-ALL FRONT DIMENSION	BODY SIZE	CASE MATERIAL	MOUNTING			TERMINALS		MANUFACTURER	MFRS. MODEL NO.	FOOT-NOTES
	RANGE	CAPTION	DIVISIONS							TYPE	PANEL	POSITION	NUMBER	LENGTH			
6082 Galvanometer	-	-	-	-	-	-	-	-	-	-	VERT	-	-	Weston	375	AS	
16841 Galvanometer	-	-	-	-	-	-	Rectangular 6-1/2 x 3-3/8 x 7-3/16	-	-	SF	-	-	-	Honeywell	3081	CS	
8340,L2 Ohmmeter	0 to 100	Ohms	45	3%	-	Dry Battery	-	-	-	-	HOR	-	-	Weston	564	AS	
8340,L1 Ohmmeter	Consists of KS8340,L2 Ohmmeter with two KS8340L3 test leads and one KS8340L4 carrying case.																
14399 Ampere-Minute Meter	2.5 Amperes	-	-	-	-	-	Rectangular 5-15/16 x 6-11/32 x 5-11/32	-	-	SUR	-	-	2	1-1/2	Sangamo	NX	-
7345 Volt-Ohmmeter	0 to 15 0 to 30 0 to 150 0 to 300 0 to 10000 0 to 100000	Volts Ohms	30	2%	-	Dry Battery	-	-	-	-	-	-	-	Weston	745	AS	
8295,L7 Volt-Ohmmeter	0 to 15 0 to 30 0 to 150 0 to 300 0 to 1000 0 to 10000 0 to 100000	AC & DC Volts Ohms	-	-	-	-	Rectangular 3-3/4 x 5-1/2 x 2-7/8	-	-	-	-	-	-	Weston	697	AS	
8295,L6 Volt-Ohmmeter	Consists of KS8295,L7 meter and KS8295,L8,L9, & L10 test leads																
8455,L2 Volt-Ohmmeter	0 to 100 Volts 0 to 0.2 meg. 0 to 2 meg.	Points Ohms	50 28 32	2%	-	45v Dry Battery	Rectangular 3.7 x 5.25 x 2.965	-	B	-	HOR to VERT	-	-	Weston Simpson	1564 324	AS	
8455,L1 Volt-Ohmmeter	Consists of KS8455,L2 test set (volt-ohmmeter), KS8456 carrying case, and 2, W1AH cords.																
Footnotes and explanations of column headings and abbreviations are shown in the Introduction.																	

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SECTION VII
METER-TYPE RELAYS

SECTION VII
METER-TYPE RELAYS

January 1965

DC VOLTMETER RELAYS

KS SPEC NO	RANGE - VOLTS DC	OPERATING VOLTAGE	CONTACTS			SOLENOID			SCALE			ACCURACY ±	MOVING COIL RESIS. (Ohms)	MAX. OVERALL FRONT DIM.	BODY SIZE	CASE MAT.	MOUNTING			TERMINALS		MFR.	MFR. NO.	NOTES
			Type	Fixed or Adj	M or NM	Reset Volt	Max. Volt	Resis.	Scale RANGE	Capt	Divisions						Type	Panel	Pos.	No.	Length			
8124	135-160	135 decreasing	S	Fixed	M	120	160	6400 ±20%	--	Volts	--	2-1/2 %	50 ±20%	2-3/4 Rd	--	Met	SUR	MAG 7/32	VERT	4	1-3/4	Weston	705	EA
8533	20-30	24.3 decreasing	S	Adj	M	MANUAL			20-30	Volts	10	5%	2100 ±20%	2-3/4 Rd	--	Met	SUR	NM	VERT	4	1-3/4	Weston	705	EB, EC
8577	45-55	47.2 decreasing	S	Adj	M	MANUAL			45-55	Volts	10	5%	2100 ±20%	2-3/4 Rd	--	Met	SUR	NM	VERT	4	1-3/4	Weston	705	ED, EE
14551	24-28	24.75 ±.2 26.75 ±.2	D	Fixed	NM	NONE			24-28	--	--	2%	1400 ±5%	4-1/2 Rd	3-27/32 Diam	Met	FL	MAG 1/16	VERT	5	17/32	Weston	534	
14767	51-56	(EG)	S	Fixed	M	45	--	--	0,5, 51,56	Volts DcInc	6	1v	55000 ±2%	2-3/4 Rd	--	Met	SUR	MAG 3/32	VERT	4	11/16	Weston	705	EA, EF, EG
16003	46-51	(EH)	S	Fixed	M	45	--	--	0,5, 46,51	Volts DcDec	6	1v	55000 ±2%	2-3/4 Rd	--	Met	SUR	MAG 3/32	VERT	4	11/16	Weston	705	EA, EF, EH
16335	48-54	49.7 ±1/2% 52.5 ±1/2%	D	Fixed	M	NONE			48-54	Volts DC	6	(EK)	10000 ±1%	3-1/2 Rd	2.80 Diam	Met	FL	MAG or NM	VERT	5	13/32	Weston	1091	EJ, EK
19354	24-30	-	S	Fixed	M	26	29	-	24-30	Volts	12	1%	6170 ±5%	3-1/2 Rd	2.80 Diam	Met.	FL	NM or MAG	VERT	5	.41	Weston	1091	FA
7996	13-19	13	S	Adj	-	MANUAL			-	-	-	-	-	2-3/4 Rd	-	Met.	SUR	-	VERT	5	21/32	Weston	705	EA
7437	8-12.5	-	-	Fixed	-	-			-	-	-	-	1450 ±1%	4-1/2 Rd	3-27/32 Diam	Met.	FL	MAG	VERT	5	17/32	Weston	534	

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

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KS SPEC NO	RANGE - VOLTS AC	OPERATING VOLTAGE	CONTACTS			SOLENOID			SCALE			ACCU- RACY ±	MOVING COIL RESIS. (Ohms)	MAX. OVERALL FRONT DIM.	BODY SIZE	CASE MAT.	MOUNTING			TERMINALS		MFR.	MFR. NO.	NOTES
			Type	Fixed or Adj	M or NM	Reset Volt	Max. Volt	Resis.	Scale Range	Capt	Div isi ons						Type	Panel	Pos.	No.	Length			
8333	0-1.0 1000 ^v	0.775 increasing	S	Adj	M	48	--	900 ±20%	--	---	---	1v	2500 min	2-3/4 Rd	--	Met	SUR	NM	VERT	4	1-3/4	Weston	705	EL, EM
8384	0-0.8 60 ^v	0.5 decreasing	S	Fixed	M	MANUAL			--	---	---	5%	2600 ±25%	2-3/4 Rd	--	Met	SUR	MAG 7/32	VERT	4	11/16	Weston	705	EN
8385	0-1.0 60 ^v	0.55 decreasing	S	Fixed	M	MANUAL			--	---	---	5%	1000 ±25%	2-3/4 Rd	--	Met	SUR	MAG 7/32	VERT	4	11/16	Weston	705	EN
13742	0.325- 0.395 2200 ^v	0.325 decreasing 0.395 increasing	D	Adj	M	MANUAL			--	A	2	.01v	2100 ±20%	2-3/4 Rd	--	Met	SUR	MAG 3/32	VERT	5	1-3/4	Weston	705	EL
13747	(EP) 1200 ^v	1.0	D	Adj	M	MANUAL			10-0- 10	---	20	.2v	---	2-3/4 Rd	--	Met	SUR	MAG 7/32	VERT	5	1-3/4	Weston	705	EN, EP

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

January 1965

DC MICROAMMETER RELAYS

KS SPEC NO	RANGE - MICRO AMPS	FUNCTION-ING CURRENT (ua)	CONTACTS			SOLENOID			SCALE			ACCU-RACY ±	MOVING COIL RESIS. (Ohms)	MAX. OVERALL FRONT DIM.	BODY SIZE	CASE MAT	MOUNTING			TERMINALS		MFR.	MFR. NO.	NOTES
			Type	Fixed or Adj	M or NM	Reset Volt	Max. Volt	Resis.	Scale Range	Capt	Divi sions						Type	Panel	Pos.	No.	Length			
7900	26.5-34	Dec-27.5 Inc-33.0	D	Fixed	M	5	-	-	-5,0, +5	DB	-	1ua	2100 ±20%	2-3/4 Rd	-	Met.	SUR	-	-	5	1-3/4	Weston	705	
7901	5.8- 56.6	Dec-10.8 Inc-51.6	D	Fixed	M	5	-	-	-5,0, +3	DB	-	5ua	310 ±20%	2-3/4 Rd	-	Met.	SUR	-	-	5	1-3/4	Weston Assem. Prod.	705 391	
8327	61-200	Dec-61 Inc-200	D	Adj	M	MANUAL			-5,0, +5	DB	10	10ua	60 ±20%	2-3/4 Rd	-	Met.	SUR	MAG 7/32	VERT	5	1-3/4	Weston	705	
8346	0 -125	Inc-125	S	Fixed	M	48	-	900 ±20%	-	-	-	5%	50 ±20%	2-3/4 Rd	-	Met.	SUR	MAG 1/8	VERT	4	1-3/4	Weston	705	
8357	14.1- 54.2	Dec-16.7 Inc-51.6	D	Fixed	M	19	28	175 ±20%	-3,0, +3	DB	6	5%	525 ±20%	2-3/4 Rd	-	Met.	SUR	NM	VERT	5	1-3/4	Weston	705	
8383	50-100	Dec-50	S	Fixed	M	20-28	28	175 ±20%	-	-	10	5%	525 ±20%	2-3/4 Rd	-	Met.	SUR	NM	VERT	4	1-3/4	Weston	705	
8388	0-100	Dec-0	S	Fixed	M	20-28	28	175 ±20%	-	-	10	5%	430 ±20%	2-3/4 Rd	-	Met.	SUR	NM	VERT	4	1-3/4	Weston	705	
8847, L2	68-279	Dec-81 Inc-266	D	Fixed	M	18	28	175 ±20%	-5,0, +5	DB	-	13ua	525 ±20%	2-3/4 Rd	-	Met.	SUR	MAG 7/32	VERT	5	1-3/4	Weston	705	EQ
13627	22-43	Dec-23 Inc-42	D	Fixed	M	6	-	20 ±20%	-3,0,	DB	-	1ua	2100 ±20%	2-3/4 Rd	-	Met.	SUR	MAG	VERT	5	1-3/4	Weston	705	ER, ES
13799	0-60	Dec-38	S	Fixed	M	MANUAL			-	-	-	5%	2100	2-3/4 Rd	-	Met.	SUR	MAG	VERT	4	1-3/4	Weston	705	
14075	30-500	Dec-30	S	Fixed	M	20-28	-	-	+3,0, -5,-10	DB	9	(ET)	32 ±20%	3-1/2 Rd	2.75 Diam	MM	FL	NM	VERT	4	3/4	Weston Assem. Prod.	705 391	ET
14459	22-43	Dec-23	D	Fixed	M	6	-	80 ±20%	-3,0, +3	DB	6	1ua	2100 ±20%	3-1/2 Rd	2.80 Diam	Met.	FL	NM	VERT	7	.41	Weston	723	EQ, EU
19095	320-495	Dec-320 Inc-495	D	Fixed	M	16	28	530 ±20%	-	-	3	17.5ua	500 ±20%	1.68 x 2.03	1.53	MM	SUR	NM	VERT	7	Solder tabs	Weston	1085	EQ
19348	45-205	Dec-35 Inc-215	D	Fixed	M	16	28	530 ±20%	-5,0, +5	DB	2	-	1700 ±20%	1.68 x 2.03	1.53	MM	SUR	NM	VERT	7	Solder tabs	Weston	1085	EQ

Footnotes and expnations of column headings and abbreviations are shown in the Introduction.

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KE SPEC NO.	RANGE - MICRO AMPS	FUNCTIONING CURRENT (ua)	CONTACTS			SOLENOID			SCALE			ACCURACY #	MOVING COIL RESIS. (Ohms)	MAX. OVERALL FRONT DIM.	BODY SIZE	CASE MAT.	MOUNTING			TERMINALS			MFR.	MFR. NO.	NOTES
			Type	Fixed or Adj	M or NM	Reset Volt	Max. Volt	Resis.	Scale Range	Capt	Divisions						Type	Panel	Pos.	No.	Length				
16724	25-50	25 ±2.5	S	Fixed	M	24	-	800 ±20%	25, 50	UA DC	5	-	2000 ±20%	3-1/2 Rd	2.80 Diam	Met.	FL	NM or MAG	VERT	7	.41	Weston	723	EQ,FB	
14491	87-266	Dec-87±7 Inc-266 ±13	D	Fixed	M	18	28	175 ±20%	-5,0, +5	DB	-	-	525 ±20%	3-1/2 Rd	2.80 Diam	MM	FL	MAG 3/32	VERT	5	3/4	Weston Assem. Prod.	705 391		
14578	10-55	Inc-50	S	Fixed	M	18	28	175 ±20%	-	-	2	10%	310 ±20%	3-1/2 Rd	2.75 Diam	MM	FL	MAG 3/32	VERT	4	11/16	Weston	705	EQ	
14613	112-202	Dec-119 ±7 Inc-189 ±13	D	Fixed	M	18	28	175 ±20%	-2,0, +2	DB	-	-	525 ±20%	3-1/2 Rd	2.75 Diam	MM	FL	MAG 3/32	VERT	5	11/16	Weston	705	EQ	
16050	26.1-34.3	Dec-26.6 Inc-33.8	D	Fixed	M	5	-	-	-1,0, +1	DB	4	.5ua	2100 ±20%	2-3/4 Rd	-	Met.	SUR	MAG 1/16	VERT	5	1-3/4	Weston	705	ER,ES	
16051	19.8-43.6	Dec-20.8 Inc-42.6	D	Fixed	M	6	-	20 ±20%	-3,0, +3	DB	6	1ua	2100 ±20%	2-3/4 Rd	-	Met.	SUR	MAG 1/16	VERT	5	1-3/4	Weston	705	ER,ES	
16393	2-0-2	-	D	Fixed	M	(EV)	-	170 ±20%	-	-	2	.4ua	2100 ±20%	1.68 x 2.03	1.53	MM	SUR	NM	VERT	7	Solder tabs	Weston	1085	EV,EW	
16464	50-0-50	Dec-50	S	Fixed	NM	-	-	-	-	-	-	5ua	1000 ±20%	1.55 x 2.16	1.34	MM	SUR	NM	VERT	5	Solder	Weston	813	EX,EY	
16465	50-0-50	50	D	Adj	NM	-	-	-	-	-	-	5ua	1000 ±20%	3-1/4 x 4-1/2	2.87	B	SUR	NM	VERT	5	Screw	Weston	534	EX	
19166, 11	50-0-50	Inc-50 ±5	D	Fixed	M	-	-	-	2,0, 2	Cycles	4	5%	123 ±20%	1.55 x 2.16	1.34	MM	SUR	NM	VERT	5	Solder tabs	Weston	813	EQ	
16526	0-50	Inc-50	S	Fixed	M	24	-	800 ±20%	0,60, 150	CPS	5	5%	2250 ±20%	3-1/2 Rd	2.80 Diam	Met.	FL	NM	VERT	7	.41	Weston	723	EZ	
16640	30-500	Dec-30	S	Fixed	M	90 60	90 60	-	+3,0, -5, -10	DB	9	(ET)	32 ±20%	3-1/2 Rd	2.75 Diam	MM	FL	NM	VERT	4	.67	Weston	705	ET	
16649	70-100	Dec-70	S	Fixed	M	9	-	170 ±20%	70, 100	MICS	3	3ua	2100 ±20%	1.68 x 2.03	1.53	MM	SUR	NM	VERT	7	Solder tabs	Weston	1085	EQ,EW	
14339	45-55	Dec-50	S	Fixed	M	-	-	-	-	-	-	5ua	1500 ±10%	3-1/4 x 4-1/2	2.87	B	SUR	MAG	VERT	5	Binding Post	Weston	534		

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC NO	RANGE - MICRO AMPS	FUNCTION- ING CURRENT (ua)	CONTACTS			SOLENOID			SCALE			ACCU- RACY ±	MOVING COIL RESIS. (Ohms)	MAX. OVERALL FRONT DIM.	BODY SIZE	CASE MAT.	MOUNTING			TERMINALS		MFR.	MFR. NO.	NOTES
			Type	Fixed or Adj	M or NM	Reset Volt	Max. Volt	Resis.	Scale Range	Capt	Div isi ons						Type	Panel	Pos.	No.	Length			
13672	-16 to -23 dbm	Dec -22 ±1 dbm 1000	S	Fixed	M	20-28	--	--	--	--	--	--	2100 ±20%	2-3/4 Rd	--	Met	SUR	MAG 1/4	VERT	4	1-3/4	Weston	705	EL

Footnotes and explanations of column headings and abbreviations are shown in the Introduction.

KS SPEC NO.	RANGE - MILLI AMPS	FUNCTIONING CURRENT (ma)	CONTACTS			SOLENOID			SCALE			ACCURACY ±	MOVING COIL RESIS. (Ohms)	MAX. OVERALL FRONT DIM.	BODY SIZE	CASE MAT.	MOUNTING			TERMINALS		MFR.	MFR. NO.	NOTES
			Type	Fixed or Adj	N or NM	Reset Volt	Max. Volt	Resis.	Scale Range	Capt	Divisions						Type	Panel	Pos.	No.	Length			
14601	.65-1.1	Dec-65 ±.05	S	Fixed	M	MANUAL			.65-1.1	-	3	5%	14 ±20%	1.55 x 2.16	1.34	MM	SUR	MAG 1/16	VERT	5	Solder tabs	Weston	813	
16525	1.1-3.0	Dec-1.1 ±55ua	S	Fixed	M	24	-	800 ±20%	4,5,0	DB	5	-	3.7 ±20%	3-1/2 Rd	2.80 Diam	Met.	FL	NM	VERT	7	.41	Weston	723	EQ, EZ
13760	1.5	Dec-0.5	S	Adj	M		-		0-1.5	Mil-Amps	6	0.1ua	400 ±25%	3-1/4 Rd	2.56 Diam	Met.	FL	NM	VERT	4	3/4	Weston	730	
19367	0.2	-	S	Adj	-		-		-	-	-	1%	1310 ±20%	4.66 x 4.20	2.76 Diam	-	SF	MAG	VERT	-	(FC)	Weston	-	FC

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