

# **A.C. Voltmeters and Ammeters**



## A.C. AMMETERS AND VOLTMETERS

A wide range of indicators for use in a. c. systems can be offered; instruments in this range being of the moving coil rectifier type.

Aircraft a. c. type indicators are normally calibrated for use with a 400 c.p.s. supply unless otherwise specified.

Ammeters having a range of above 1 amp a. c. must be used with external transformers.

Where screw terminals are specified these can be supplied as No.4BA or No.6UNC. Both types will accept A.M.P. terminal tags.

Standard calibrated dials have white markings on a black background, but dials are also available with fluorescent markings on a black background or black markings on a white background.

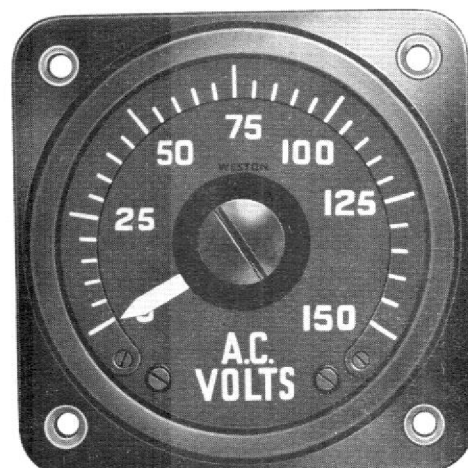


*Model S 149 Form 2*

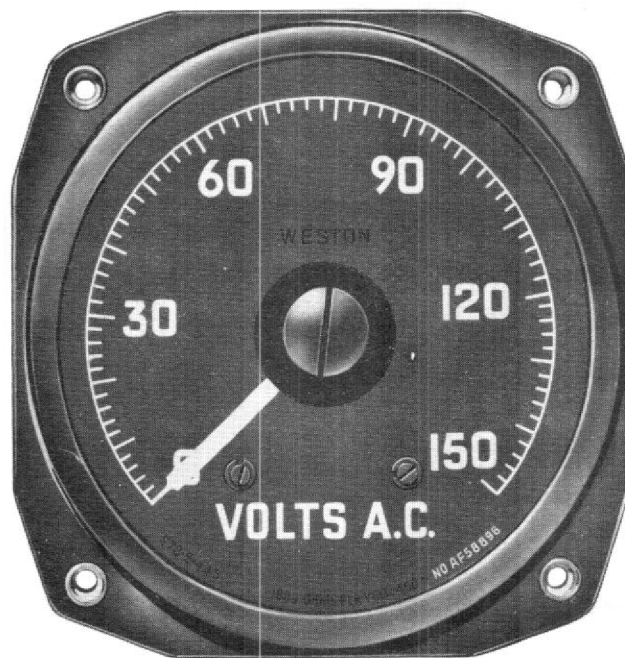
*Typical Presentation*

*Model S 231 Form 4*

*Typical Presentation*

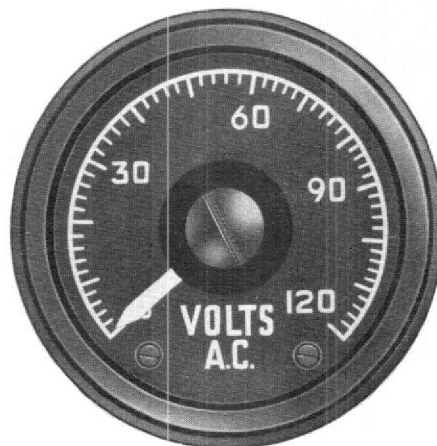






*Model S 78 Form 5*

*Typical Presentation*



*Model S 451 Form 4*

*Typical Presentation*



# A.C. VOLTMETERS AND AMMETERS

MODEL	FORM	DESCRIPTION	CASE DEPTH	NOMINAL SCALE ANGLE	SCALE LENGTH	ELECTRICAL CONNECTIONS	NORMAL ACC. OF FSD	APPROX. WEIGHT	F.D.
S78	4	Small S.A.E. shielded bakelite case	2.94 in (75 mm)	260°	4.125 in (105 mm)	A3.B3.	± 3%	11.5 oz (326 g)	684
S78	5	Large S.A.E. shielded bakelite case	3.219 in (82 mm)	260°	5.875 in (149 mm)	A3.B3.	± 3%	16 oz (454 g)	777
S78	6	Large S.A.E. shielded bakelite case	4.5 in (114 mm)	260°	5.875 in (149 mm)	A3.B3	± 3%	17 oz (482 g)	781
S149	2	2 in dia Flangeless steel case (Sealed)	3.9 in (99 mm)	260°	3.25 in (83 mm)	A3.B3.C3.	± 3%	11 oz (312 g)	814
S216	2	2 in dia Flangeless steel case (Sealed) Dual movements	3.9 in (99 mm)	90°	0.83 in (21 mm)	C10.D1.	± 5%	10 oz (283 g)	972
S231	4	Small S.A.E. shielded bakelite case. Platform dial. Alternative to S78 Form 4 with improved scale linearity and accuracy	2.94 in (75 mm)	240°	3.8 in (97 mm)	A3.B3.	± 3%	11.5 oz (326 g)	684
S231	5	Large S.A.E. shielded bakelite case. Platform dial. Alternative to S78 Form 5 with improved scale linearity and accuracy	3.219 in (82 mm)	240°	4.5 in (114 mm)	A3.B3.	± 2%	16 oz (454 g)	777
S231	6	Large S.A.E. shielded bakelite case	4.5 in (114 mm)	240°	4.5 in (114 mm)	A3.B3.	± 2%	17 oz (482 g)	781
S451	4	Small S.A.E. shielded bakelite case (Flangeless)	2.94 in (75 mm)	260°	4.125 in (105 mm)	A3.B3.	± 3%	10.5 oz (297 g)	1134
S451	5	Large S.A.E. shielded bakelite case (Flangeless)	3.219 in (82 mm)	260°	5.875 in (149 mm)	A3.B3.	± 3%	14 oz (397 g)	1190
S451	6	Large S.A.E. shielded bakelite case (Flangeless)	4.5 in (114 mm)	260°	5.875 in (149 mm)	A3.B3.	± 3%	15 oz (425 g)	
S454	2	2 in dia Flangeless steel case (Sealed)	3.9 in (99 mm)	90°	1.3 in (33 mm)	A3.B3.C3.	± 4%	11 oz (312 g)	1164
S458	2	2 in dia Flangeless steel case (Sealed)	3.9 in (99 mm)	240°	3 in (76 mm)	A3.B3.C3.	± 2½%	11 oz (312 g)	814
S460	4	Small S.A.E. shielded bakelite case (Flangeless)	2.94 in (75 mm)	240°	3.8 in (97 mm)	A3.B3.	± 2%	10 oz (297 g)	1134
S460	5	Large S.A.E. shielded bakelite case (Flangeless)	3.219 in (82 mm)	240°	4.5 in (114 mm)	A3.B3.	± 2%	14 oz (397 g)	1190
S483	2	2 in Square front steel case with integral lighting	4.51 in (115 mm) max.	240°	3.3 in (84 mm)	A6.B4.C7.	± 2½%	20 oz (566 g)	1374
S484	2	2 in square front steel case with integral lighting. Dual movements	4.51 in (115 mm) max.	240°	3.3 in (84 mm)	A6.B4.C12	± 5%	16 oz (454 g)	1374





## PREFERRED RANGES

All screw terminals and fixing nuts have Unified threads.

Dial: Black with White markings

Pointer: White

Model S78 : Lance - narrow tip

Model S149 : Lance

### *A.C. VOLTMETERS—400 c.p.s.*

RANGE	2 in Dia. Sealed 3 pin Cannon Plug	2 in Dia. Sealed Screw Terminals	Small SAE Screw Terminals	Large SAE Screw Terminals
0-150V	S149.2.332	S149.2.329	S78.4.1158	S78.5.1161
0-200V	S149.2.333	S149.2.330	S78.4.1159	S78.5.1162
0-250V	S149.2.334	S149.2.331	S78.4.1160	S78.5.1163

### *A.C. AMMETERS—400 c.p.s.*

These are used in conjunction with external Current Transformers - See Section 15.

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