



Switchboard Meters

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Notes:

- 1—Unless otherwise specified Ammeters and Voltmeters are furnished in round patterns with cases in dull black Japan finish.
- 2—D. C. Ammeters with lower ranges, from 0 to 75 Amperes, are self-contained, the shunts being an integral part of the instrument.
- 3—Unless otherwise specified, D. C. Ammeters with ranges above 0 to 75 Amperes are furnished with the shunt detachable.
- 4—D. C. Voltmeters with ranges up to 600 volts have self-contained resistors.
- 5—A. C. Ammeters with ranges up to 500 Amperes have self-contained current coils.
- 6—A. C. Voltmeters with ranges up to 300 volts have self-contained resistors.
- 7—Unless otherwise specified, meters are furnished in the back connected type, in which the binding posts are carried through to the rear of switchboards.
- 8—The front Connected Type of Meter in which binding posts are mounted on the Meter in front of switchboard is shown for convenience in ordering replacements or repairs for earlier types of switchboards.
- 9—Three mounting screws with nuts and washers are required for mounting each D. C. Ammeter or Voltmeter and they must be ordered separately
- 10—A. C. Ammeters and Voltmeters require no mounting screws as the terminal posts serve this purpose.
- 11—Synchrosopes, frequency meters and other special instruments are not shown but we furnish such instruments to meet individual requirements.

Standard Scale Ranges

(Other Scales than those shown below can be furnished to meet individual requirements)

D. C. Ammeter Scale Ranges	Dwg. Ref.
0-1 Amperes.....	50722-1
0-5 Amperes.....	50722-2
0-10 Amperes.....	50722-3

(Continued on following page)

Switchboard Meters

Standard Scale Ranges

D. C. Ammeter Scale Ranges	Dwg. Ref.
0-15 Amperes.....	50722-4
0-25 Amperes.....	50722-5
0-35 Amperes.....	50722-6
0-50 Amperes.....	50722-7
0-80 Amperes.....	50722-8
0-100 Amperes.....	50722-9
0-500 Milli Amperes.....	50722-19
0-1000 Milli Amperes.....	50722-20
D. C. Voltmeter Scale Ranges	
0-5 Volts.....	50723-1
0-15 Volts.....	50723-2
0-25 Volts.....	50723-3
0-50 Volts.....	50723-4
0-80 Volts.....	50723-5
0-130 Volts.....	50723-6
0-150 Volts.....	50723-7
0-200 Volts.....	50723-8
0-250 Volts.....	50723-9
0-300 Volts.....	50723-10
0-600 Volts.....	50723-11
0-15 } Double Scale.....	50723-12
0-150 } Volts.....	
0-30 } Double Scale.....	50723-13
0-300 } Volts.....	
A. C. Ammeter Scale Ranges	
0-1 Amperes.....	50720-1
0-3 Amperes.....	50720-13
0-5 Amperes.....	50720-2
0-10 Amperes.....	50720-3
0-15 Amperes.....	50720-4
0-20 Amperes.....	50720-12
0-25 Amperes.....	50720-5
0-30 Amperes.....	50720-11
0-40 Amperes.....	50720-6
0-50 Amperes.....	50720-7
0-75 Amperes.....	50720-8

Switchboard Meters

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A. C. Ammeter Scale Ranges		Dwg. Ref.
0-100 Amperes.....		50720-9
0-500 Milli Amperes.....		50720-10
 A. C. Voltmeter Scale Ranges		
0-15 Volts.....		50721-1
0-30 Volts.....		50721-2
0-50 Volts.....		50721-3
0-75 Volts.....		50721-4
0-125 Volts.....		50721-5
0-150 Volts.....		50721-6
0-300 Volts.....		50721-7
0-600 Volts.....		50721-8

Drawing references are shown for convenience in checking shipping lists and invoices.

Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
A	D. C. Ammeter, back connected, self-contained Shunt, range 0-75 Amperes. Scale as specified or as required. See Standard Scale Ranges.....	
A1	as above, except range above 75 Amperes with detachable Shunt. Scale as specified or as required. See Standard Scale Ranges.....	
B	D. C. Voltmeter, back connected, self-contained Shunt, range 0-500 Volts. Scale as specified or as required. See Standard Scale Ranges.....	
C	D. C. Ammeter, front connected, self-contained Shunt, range 0-75 Amperes. Scale as specified. See Note 8.....	
C1	as above, except range above 75 Amperes, with detachable Shunt. Specify Scale. See Note 8.....	
D	D. C. Voltmeter, front connected, self-contained Shunt. Specify Scale. See Note 8.....	
E	A. C. Ammeter, back connected, self-contained range from 0-100 Amperes. Scale as specified or as required. See Standard Scale Ranges.....	

(Continued on following page)

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Drawing references are shown for convenience in checking shipping lists and invoices.

Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
F	A. C. Voltmeter, back connected, self-contained range 0-300 Volts. Scale as specified or as required. See Standard Scale Ranges.....	
F1	as above, except with external Resistor for direct connection to circuits above 300 Volts and up to and including 750 Volts. Scale as specified or as required.....	
G	Ampere hour Meter, service type, equipped with Duplex Totalizing Dials as shown. This Meter is for keeping a record of both charge and discharge of battery in Ampere hours from which the Ampere hour efficiency of battery may be determined. Also furnished in Round Case as in Fig. H..	
H	Ampere hour Meter, Circular Dial, for use where the instantaneous condition of the battery is desired. Standard dials may be furnished to read 100, 200, etc., up to 600 Ampere hours per revolution of the pointer. In choosing the dial scale it is important that the maximum possible discharge of the battery should be considerably less than the Ampere hours corresponding to one revolution of the dial hand. Scale as specified or as required.....	
1	Nut No. 8-32 hex. for Screw Fig. 3 and 3a (2 required).....	7256
2	Washer for Screw Fig. 3 and 3a (1 required).....	5046-1
3	Screw No. 8-32 x 2 $\frac{5}{8}$ " used for mounting D. C. Ammeter and Voltmeter to 1 $\frac{1}{2}$ " Slate. (3 required for each meter).....	32416-1
3a	as above, except Screw is 2 $\frac{1}{8}$ " long for mounting to 1" Slate. (3 required for each meter).....	32416