

Meter Panels, Shunts, Ammeters and Voltmeters

Meter Panels

DIGITAL METERING			
Panel Size	Description	Part No.	See Fig.
1-3/4" x 19" (4.45cm x 48.26cm)	Meter Only	437421700	1
	Meter & Alarm	437420600	2
1-3/4" x 23" (4.45cm x 58.42cm)	Meter Only	437421500	1
	Meter & Alarm	437420800	2

Figure 1



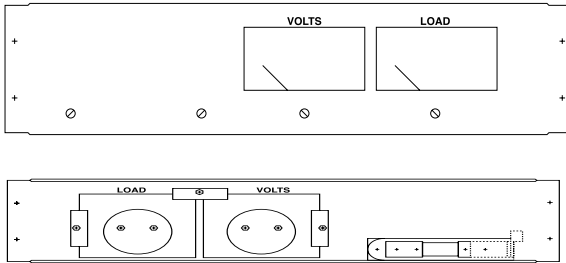
Microprocessor Controlled Meter Panel

Figure 2



Microprocessor Controlled Meter & Alarm Panel

Figure 3



Typical 19" (48.26cm) or 23" (58.42cm) assembly arranged for: (2) 4-1/2" (11.43cm) meter, one shunt

Order input/output lugs and adapters as required.

TABLE A			
Ammeters and Shunts			
Meter Range	Meter Size	Part No.	Associated Shunts Part No.
0-15A	3-1/2" (31.12cm)	292485800	298270700
	4-1/2" (11.43cm)	292531200	
0-50A	3-1/2" (31.12cm)	292486300	298271000
	4-1/2" (11.43cm)	292532000	
0-100A	3-1/2" (31.12cm)	292486500	298271200
	4-1/2" (11.43cm)	292532400	
0-200A	3-1/2" (31.12cm)	292487000	298271400
	4-1/2" (11.43cm)	292532800	
0-400A	3-1/2" (31.12cm)	292487500	298266000
	4-1/2" (11.43cm)	292533200	

METER PANELS			
Panel Size	Arranged For	Part No.	From Tables
3-1/2" x 19" (8.89cm x 48.26cm)	(4) 3-1/2" (8.89cm) Meters	437410500	A,B,C
5-1/4" x 19" (13.34cm x 48.26cm)	(2) 4-1/2" (11.43cm) Meters & (1) Shunt (Max 400A)	437410400	A,C (Fig. 3)
	(2) 4-1/2" (11.43cm) Meters & (1) Shunt (400-800A)	437421300	B,C (Fig. 4)
5-1/4" x 23" (13.34cm x 58.42cm)	(2) 4-1/2" (11.43cm) Meters & (1) Shunt (Max 400A)	437410600	A,C (Fig. 3)
	(2) 4-1/2" (11.43cm) Meters & (1) Shunt (400-800A)	437421400	B,C (Fig. 4)
	(4) 4-1/2" (11.43cm) Meters	437410700	A,B,C

Figure 4

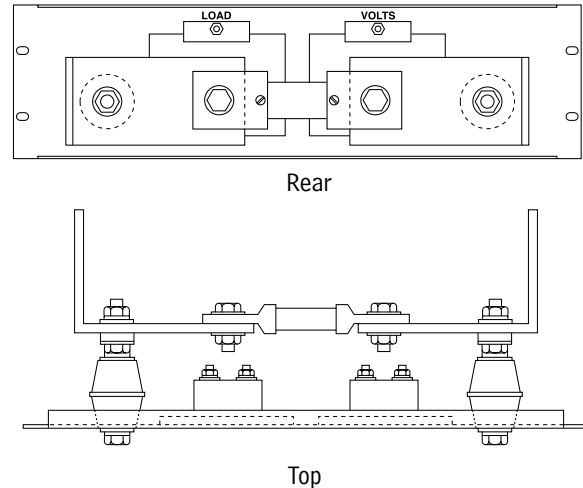


TABLE B			
Ammeters and Shunts			
Meter Range	Meter Size	Part No.	Associated Shunt Part No.
0-400A	4-1/2" (11.43cm)	292533600	298266500
0-600A	3-1/2" (8.89cm)	292487800	298271900
	4-1/2" (11.43cm)	292533600	
0-800A	3-1/2" (8.89cm)	292488000	298272100
	4-1/2" (11.43cm)	292533800	
0-1,000A	3-1/2" (8.89cm)	292488200	298272200
	4-1/2" (11.43cm)	292534100	
0-1,200A	3-1/2" (8.89cm)	292488400	298272300
	4-1/2" (11.43cm)	292534200	
0-1,600A	3-1/2" (8.89cm)	292488600	298272600
	4-1/2" (11.43cm)	292534300	
0-2,000A	4-1/2" (11.43cm)	292534400	298268100
0-2,500A	4-1/2" (11.43cm)	292534500	298268200
0-3,000A	4-1/2" (11.43cm)	292534700	298268300
0-4,000A	4-1/2" (11.43cm)	292534600	298268500
0-6,000A	4-1/2" (11.43cm)	292534800	298268900
0-10,000A	4-1/2" (11.43cm)	292535200	As Required

Meter Panels, Shunts, Ammeters and Voltmeters

Meter Panels (continued)

TABLE C			
Voltmeters			
Meter Range	Meter Size	Part No.	Accuracy 0° to +60° C (+32° F to +140° F)
0-40V	3-1/2" (8.89cm)	294486300	± 2%
	4-1/2" (11.43cm)	294591900	± 1%
0-75V	3-1/2" (8.89cm)	294486400	± 2%
	4-1/2" (11.43cm)	294592200	± 1%
0-200V	3-1/2" (8.89cm)	294487000	± 2%
	4-1/2" (11.43cm)	294592800	± 1%

Shunt and Termination Panels and Accessories

SHUNT AND TERMINATION PANELS			
Max. Capacity	Panel Size	Part No.	Shunt
200A	3-1/2" x 23" (8.89cm x 58.42cm)	424510400	E/W 200A
600A		424510500	E/W 600A
1,000A 1,200A	5-1/4" x 23" (13.34cm x 58.42cm)	413304900	TABLE B
1,200A	10-1/2" x 23" (26.67cm x 58.42cm)	424510600	E/W 1200A
1,600A		414510700	E/W 1600A

ACCESSORIES		
Description	Part No.	
Lug Adapter For Use With 15-400 amp Shunts From Table A, Arranged For (2) 2 Hole Lugs With 3/8" (.95cm) HDW, 1" (2.54cm) C-C	357616500	
Busbar For Connecting 15-400 amp Shunts (Table A) To Main Discharge Bus.	363335100	
Apparatus Blank To Cover Unused Meter Position.	3-1/2" (8.89cm) Meter	346511700
	4-1/2" (11.43cm) Meter	346511800
5' (1.52m) Shunt Cord (.065 OHM Calibrated)	298287100	
See Lug Tables For Saddle or Crimp Type Lugs and Order by Quantity and Part No. as Required.		

Application Notes

- Digital meter panels and digital meter and alarm panels are capable of monitoring (2) voltages and (3) shunt currents. The digital meter and alarm panel will also provide various power system alarms. The digital metering will operate over a voltage range of ± 18 to ± 163 volts DC. Accuracy is $\pm .4\%$ or ± 1 amp maximum of full scale deflection at 0° C to $+60^\circ$ C ($+32^\circ$ F to $+140^\circ$ F). Customer furnished 1-1/3 amp fuses are required to power the meter and monitor the voltage.
- Panels arranged for shunts are restricted to indicated maximum limits due to the physical size of the shunt.
- Ammeters: unless otherwise specified, accuracy is $\pm 2\%$ full scale deflection over a temperature range of 0° C to $+60^\circ$ C ($+32^\circ$ F to $+140^\circ$ F).
- Voltmeters: accuracy is $\pm 1\%$ or $\pm 2\%$ (indicated in table) full scale deflection over a temperature range of 0° C to $+60^\circ$ C ($+32^\circ$ F to $+140^\circ$ F).
- Meters are compatible with panels listed on the preceding page.
- Associated shunts require an alternate method of mounting (i.e. separate panel with insulated base or incorporate with bus work, etc.)

Ordering Information

- Specify part number of desired panel assembly.
- Specify quantity and part numbers of any voltmeters, ammeters and/or shunts required.
- Specify quantity and part number of any accessories and/or lugs required (see pages LLP 6-9 & 6-10).



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