

# Accessories

- Portable Shunts Up to 200DC Amps
- Switchboard Shunts Up to 500DC Amps
- Reduces High DC Current Signal Into Either 50 or 100 Millivolt Drop
- Accuracy  $\pm$  1% 5 Foot Leads (0.065 ohms) Included
- Shunts Can Be Certified to NIST Standards

## **External Portable and Switchboard Shunts**

Simpson's Portable and Switchboard shunts enable a panel meter to indicate higher DC currents than can be provided with a self-contained internal shunt. A typical shunt installation in series with the load and source is shown in the application section.

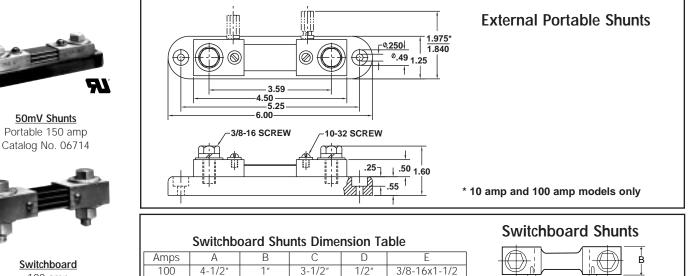
These shunts can be used with either digital or analog meters. Most digital DC millivolt meters that Simpson manufactures can be scaled to display the actual current. Simpson can custom design any dial for the analog meters you require. Simpson manufactures two types of external shunts: Portable and Switchboard shunts.

Portable shunts are mounted in a phenolic base. This base allows the shunt to be easily installed in many locations. Portable shunts come in a 50 millivolt drop and a 100 millivolt drop. The most commonly used is the 50 millivolt unit.

Switchboard shunts mount directly onto a buss bar and have a 50 millivolt drop. They have the same quality construction as a portable shunt, but without the phenolic base.

Leads for these shunts are 5 feet long and are rated at 0.065 ohms resistance. Shunts with a 100 amp rating and below can be certified to NIST standards.

### **Dimensions and Installation**



100 amp

50mV Shunts

Switchboard Catalog No. 06500

Ordering Information

Portable 50mV Shunts

Range |Cat. Number

5

10

15

25

30

50

75

100

150

200

06700

06703

06704

06705

06707

06708

06709

06711

06713

06714

06715

125

200

300

400

500

Switchboard 50mV Shunts

Range Cat. Number

06500

06503

06504

06505

06506

06507

06508

Cat. Number

06716

06717

Portable 100mV Shunts

5' leads not included

100

150

200

250

300

400

500

Amps

100

4-1/2

4-1/2

4-1/2"

5-1/2"

5-1/2

5-1/2

## **Typical Application**

1/2

1/2"

1/2"

1″

1″

3/8-16x1-1/2

3/8-16x1-1/2

3/8-16x1-1/2

1/2-13x2

1/2-13x2

1/2-13x2

3-1/2

3-1/2"

3-1/2"

4″

Δ″

4″

1'

1″

1"

1-1/2"

1-1/2

1-1/2

A motor is connected to a 220 Volt power generator, and running requirements call for 100 Amps. This motor is attached to an elevator, and the heavier the weight in the car the higher the current draw. There is a need to monitor the current draw of the motor to insure that an overweight car is not moved and the motor damaged.

A break is made in the common line between the motor and the power

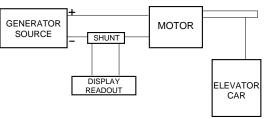
source. A shunt with a ratio of 100 DC amps/50 DC millivolts is installed in this break. An analog or digital panel meter is connected to the small screws on the shunt. The current draw will be converted to a DC millivolt signal for the

meter.

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If the ratio of Amps to car weight is known, a digital unit can be scaled to indicate the engineering unit you desire. Custom dials are available for analog meters



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