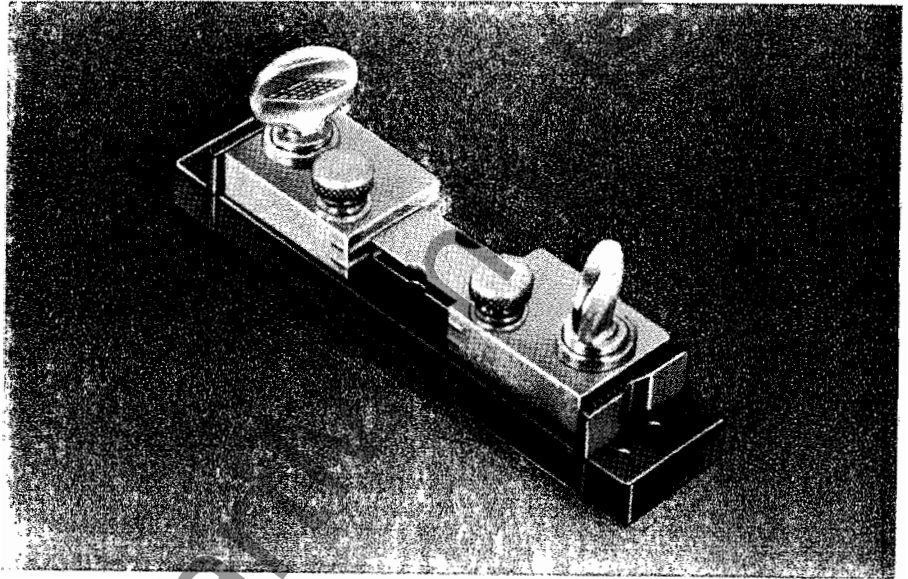


Westinghouse



## Instrument Shunts Portable Types

PS-850 (50 Millivolt Drop)  
PS-851 (100 Millivolt Drop)



Instrument shunts are accessory units for extending the range of dc ammeters beyond the ratings available in self-contained dc ammeters.

Portable shunts are used for general testing where the installation is not to be permanent. They may be used with any standard portable indicating or recording instrument having a 50 or 100 millivolt full scale deflection.

50 millivolt types are available in ratings from 1 to 1,000 amperes. 100 millivolt types are available in ratings from 1 to 500 amperes.

### Construction

Portable instrument shunts consist of one or more calibrated resistance blades of manganin soldered into terminal blocks at each end. The terminal blocks for shunts rated 300 amperes and less are made of brass, for higher ratings of copper.

Each terminal block carries a knurled screw for the instrument lead, and a wing type thumb screw for the line lead.

All shunts are mounted on a phenolic insulating base. The blades for ratings of 2 amperes or less are protected by a phenolic cover.

### Features

#### Current Thumb Screws

All portable shunts are equipped with current thumb screws with captive lock washers. This feature allows the current carrying leads to be inserted without interference by the lock washers.

#### Uniform Current Distribution

Shunt terminal block design assures uniform current distribution to all resistance blades, eliminating any possibility of localized overheating.

#### Low Temperature Error

Temperature error will not exceed 0.2% between the limits of 24°C and 80°C.

#### Negligible Thermoelectric Effect

Materials used assure the shunts have no measurable error due to thermoelectric (thermocouple) effect.

### Temperature Rise

These shunts operate at a temperature rise not in excess of 80°C when carrying their rated currents as defined in IEEE Standards.

**Instrument Shunts**  
**Portable Types**

PS-850 (50 Millivolt Drop)  
PS-851 (100 Millivolt Drop)

**Specifications**

	PS-850	PS-851
Millivolt Rating.....	50	100
Ampere Ratings Available.....	1 – 1,000	1 – 500
Accuracy.....	±¼%	±¼%

**Further Information**

Prices and Ordering Information: PL 43-820  
Dimensions and Weights: DS 43-821