

SHUNT

◆ Overview and Applications

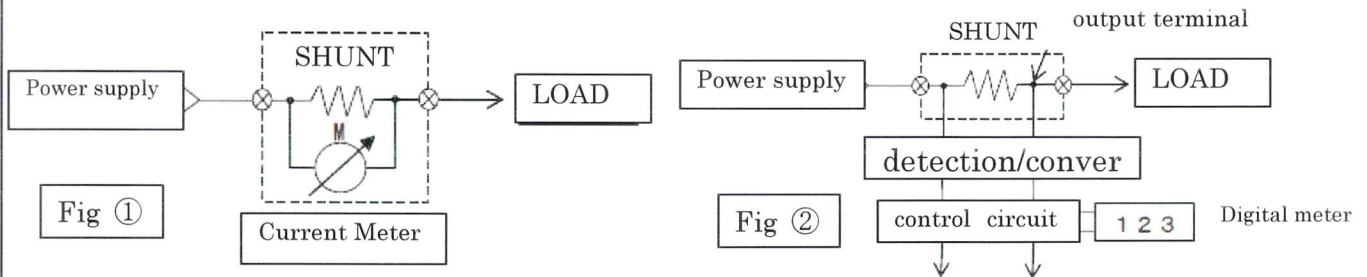
In measuring current, it is a resistor that is generally used when a current is passed through a resistor and the voltage drop is measured.

It is also used to convert current into voltage for measurement when making high-precision measurements. Conventionally, a shunt has been used by connecting it in parallel with an ammeter in order to expand the measurement range of an electric indicator (pointer type meter) (Fig. 1).

Recently, it is often used as a sensor for sending measured values to digital panel meters and control circuits through detection/converters circuits (Fig. 2).

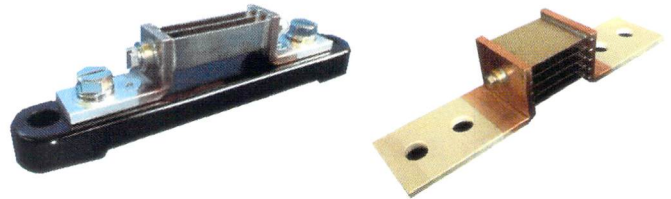
It is a method to detect and measure the voltage generated by the resistance of the shunt.

Since it is inserted in series with the circuit, it is necessary to set the resistance value as small as possible (several mΩ or less) so as to reduce the influence on the circuit operation.



◆ Specification

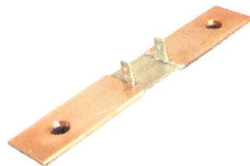
The previous shunt (TS series) has been renewed
 Voltage drop 50mV/60mV/100mV
 Accuracy: 0.1%/0.2%
 Current: 0.5A~10000A has been lined up.



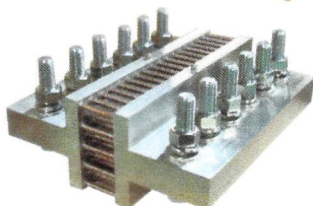
* We also manufacture other voltages and currents.

Voltage drop	Model		Current: (A)
	Accuracy:0.1%	Accuracy:0.2%	
50mV	TS15- <input type="text"/>	TS25- <input type="text"/>	The current value is entered in the <input type="text"/> part of model. Select from the following current values. 0.5 /1/1.5/2/2.5/ 3/ 4/ 5/ 6/ 7/ 7.5/10/15/20/25/30/40/50/60/75/100/ 150/200/250/300/350/400/450/500/600/750/1000/1500/2000/ <input type="text"/> 000/4000/5000/ 6000/7000/7500/8000/9000/10000 Model (example) : 50mV 0.1% 200A = 「 TS15-200 」
60mV	TS16- <input type="text"/>	TS26- <input type="text"/>	
100mV	TS11- <input type="text"/>	TS21- <input type="text"/>	

Copper bar
 mounting type



A copper bar (bus bar) mounting type is also available for applications that want to detect large currents, such as overcurrent detection, current control, and current management (battery management).



·13,000A (0.5%200mV)



we can sell specifications of 10,000A or more.
 Please feel free to contact us if you need.

< Combination of indicator and shunt >

Indicator	Shunt
class 0.2	0.10%
class 0.5	0.20%
class 1.0	0.50%
class 1.5	0.5 or 1.0%
class 2.5	1.00%

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