



Built-in burnout

The device detects disconnection of thermocouple and does scale-out of output to positive (+) side. Scale-out to negative (-) side is also manufacturable if specified.

Specified current

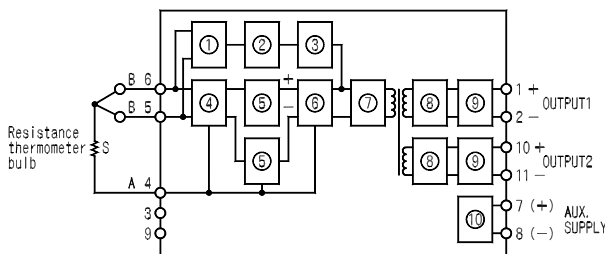
Specified current is a current flowing into a thermal resistance. Change of resistance value can be measured by voltage drop caused by the specified current. In the case of Pt, standard specified current is 2mA.

Built-in external conducting wire resistance compensating circuit

External conducting wire resistance is the resistance value of a conducting wire excluding the resistance value of element S. As the influence of external conducting wire resistance, it does compensate when resistance values of all conducting wires are the same, but it becomes an error when resistance values of all conducting wires are different from each other. Generally, taking into consideration the variousness of conducting wires, use the product under ranges listed in the table below.

Thermal resistance	External conducting wire resistance	
	Input span 100	50 Input span < 100
Pt 100Ω	10 /line	5 /line
Pt 50Ω	5 /line	2.5 /line
Cu 100Ω	10 /line	5 /line
Cu 50Ω	5 /line	2.5 /line

Block diagram



- Constant current circuit (measuring current)
- Reference voltage circuit
- Linearity correction circuit
- Burnout detecting circuit
- High input resistance amplifying circuit
- Differential amplifying circuit
- Pulse width modulation circuit
- Pulse width demodulation circuit
- Output circuit
- Insulated power source circuit

Purchase specifications

