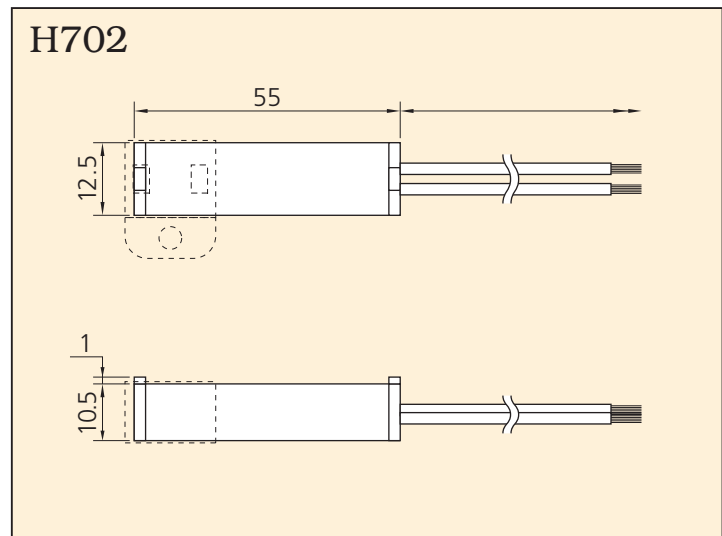


# High temperature bimetal thermostat **H702(w/case)**



### Features

1. It is bimetal type thermostat being able to perform at a high temperature of 400°C.
2. For a disk-type bimetal thermostat, 250°C is considered to be upper limit because the disk cannot withstand the high temperature stress. On the other hand, we utilize a flat plate bimetal for the H series and achieved a temperature limit of 400°C.
3. Configuration of a flat-bimetal and stainless steel spring creates an instant click activation without a spark executing a long life and maintains high accuracy of the thermostat.

### Application

Industrial equipment in general, etc.

Because it is a thermostat based on a new concept, it allows you to create your own application.

### Ratings and Characteristics

Maximum operating voltage : AC250V max., DC48V max.

Temperature setting range	150°C~199°C	200°C~299°C	300°C~400°C
Contact capacity	10A/AC120V, 6A/AC250V	10A/AC120V, 6A/AC250V	6A/AC120V, 4A/AC250V
Temperature setting tolerance	±7K	±10K	±15K
Differential	15K ± 3	20K ± 4	30K ± 6

NOTE : Tolerance/Diff. is only a target. The higher the temperature is, the larger the tolerance/Diff. will be.

Contact configuration : 1b(X)

Operating temperature range : Use within 60 degrees above the set temperature

Insulation resistance : 100MΩ or more

Contact resistance : 50mΩ or less (lead wire resistance not included)

Voltage tolerance : AC2,000V for 2sec.(600V for 1minute between contacts)

Vibration tolerance : Selected from JIS-C-0911-1984

Constant vibration ; 50Hz fixed/0.2mm fixed (1G)

Sweep vibration ; 10~55Hz/0.35mm fixed (0.1~2.2G)

Withstands 1 hour each in directions X, Y and Z

Impact tolerance : No damage when dropped three times from the height of 40cm onto a concrete floor (about 70G)

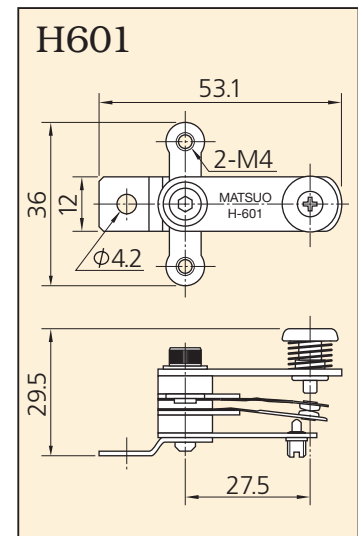
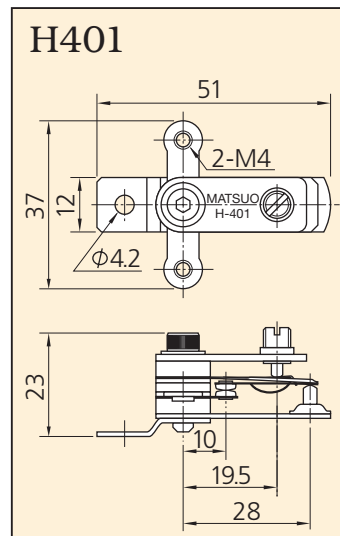
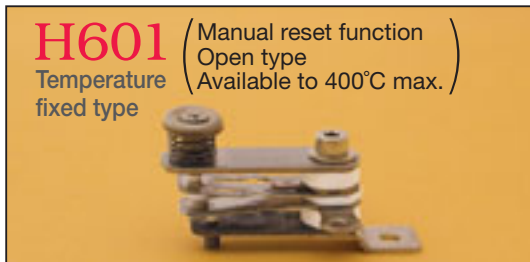
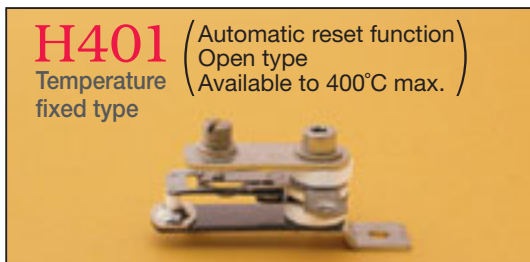
Withstands substantial impact after being put in a package or mounted in equipment

Life : 500,000 mechanical operations, 100,000 electrical operations at rated load

Precautions for handling : Outer case of the product is made of ceramic.

As you know, ceramic is brittle. Please be sure to hand it carefully.

# High temperature bimetal thermostat **H401·H601** (w/case)



### Features

1. It is bimetal type thermostat being able to perform at a high temperature of 400°C.
2. Temperature control or protection at 250°C or higher, which was not possible with the disk-type bimetal thermostat, is now available.
3. The H601 is the result of our challenging effort in the field of manual reset thermostats at 400°C.

### Application

Industrial equipment in general, etc.

Because it is a thermostat based on a new concept, it allows you to create your own application.

### Ratings and Characteristics

Maximum operating voltage : AC250V max., DC48V max.

Temperature setting range	150°C~199°C	200°C~299°C	300°C~400°C
Contact capacity	10A/AC120V, 6A/AC250V	10A/AC120V, 6A/AC250V	6A/AC120V, 4A/AC250V
Temperature setting tolerance	±7K	±10K	±15K
Differential	15K ± 3	20K ± 4	30K ± 6

NOTE : The temperature setting fixed. Please designate the desired temperature within the above temperature range. Tolerance/Diff. is only a target. The higher the temperature is, the larger the tolerance/Diff. will be. For the H601 manual reset type thermostat, the upper limit temperature is 50% or less of the preset temperature.

Contact configuration : 1b(X)

Operating temperature range : Use within 60 degrees above the set temperature

Insulation resistance : 100MΩ or more

Contact resistance : 50mΩ or less

Voltage tolerance : AC2,000V for 2sec.(600V for 1minute between contacts)

Vibration tolerance : Selected from JIS-C-0911-1984

Constant vibration ; 50Hz fixed/0.2mm fixed (1G)

Sweep vibration ; 10~55Hz/0.35mm fixed (0.1~2.2G)

Withstands 1 hour each in directions X, Y and Z

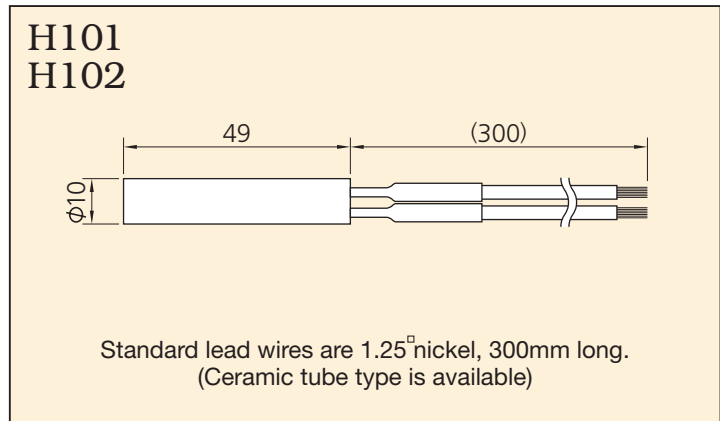
Impact tolerance : No damage when dropped three times from the height of 40cm onto a concrete floor (about 70G)

Withstands substantial impact after being put in a package or mounted in equipment

Life : 500,000 mechanical operations, 100,000 electrical operations at rated load

Precautions for handling : As you understand from its appearance, both terminals and metallic part connected them of this thermostat are live areas. Extra caution should be taken to design your products so as to eliminate the risk of an electric shock.

# High temperature fuse H101(710°C)·H102(550°C)



### Features

1. It is very unique fuse of 710°C/550°C.
2. External dimensions are the same for all H101/102 models.
3. The fuse is housed in a ceramic cylinder case.

### Ratings and Characteristics

Type	Fusing preset temperature	Switching power supply voltage	Switching capacity	Dielectric strength (after fusing)	Lead wire
H101	710°C ± 10°C	Commonly used for 100/200V	710°C/200VAC 2A (resistance load)	1200VAC/sec (between terminals)	1.25mm <sup>2</sup> Nickel lead wire
H102	550°C ± 10°C	Same as above	550°C/200VAC 2A (resistance load)	Same as above	Same as above

### Precautions for handling

1. When the current exceeds the rated value, it will activate at a lower temperature than the fusing preset temperature. Check once again that the current is not exceeding the switching capacity.
2. Unexpected force or shock during transportation or mounting may cause breakage of the temperature fuse. Furthermore, if the ambient temperature goes up, it may lead to an accidental fusing at a lower temperature. So, be careful regarding the ambient temperature.
3. Keep the temperature sensor (protection tube) horizontal or pointing downward (lead wire will be at the top) when in use. If it is used with the temperature sensor up, it may cause a malfunction.
4. Do not use in an environment where vibration or shock is constantly applied.
5. Watch for other heat sources, and try to avoid thermal interference. Be careful of fuse malfunction due to unexpected other heat sources.

### Caution

1. For storage, avoid high temperature places.
2. Ceramic protection cylinders tends to crack. So, be careful when handling.
3. Do not use the fuse without the protection tube.
4. Keep the load current within the rated value.

In principle, the temperature fuse is meant to be used as a fail safe measure. The correct system design is such that a thermostat is used for temperature control and a temperature fuse activates when the thermostat is broken.

NOTE: The specification in this brochure may be revised for improvement without notice. If you intend to purchase our product in a large quantity, please be sure to mutually confirm the desired specifications.