SATO
SATO KEIRYOKI MFG. CO., LTD.

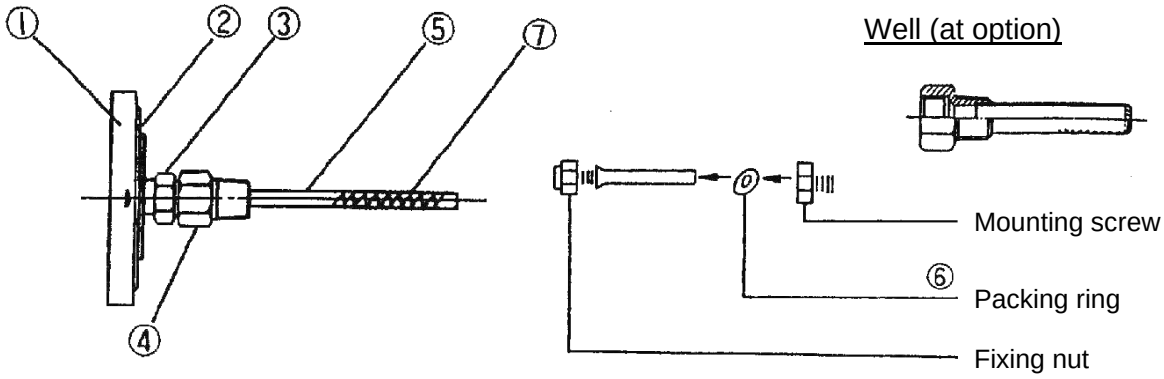
Instruction Manual for Bimetal Thermometers

Thank you for purchasing Bimetal Thermometer.
- This product is designed to measure temperature. Do not use it for other purposes.
- Read this manual thoroughly before using the bimetal thermometer. Keep the manual in a safe place for future references whenever necessary.

Measurements

1. Remove the packing materials.
2. Confirm that the bimetal thermometer has been produced with your ordered specifications on measuring range, stem length, standard of the screw and etc.
3. Check the temperature readings in a normal ambient
4. Remove the mounting screw and install it at the place to install thermometer. Be sure to tighten the screw.
5. Confirm that the packing ring is in between fixing nut and mounting screw. Otherwise, object measured may leak out.
6. Insert the sensing stem into the object measured and tighten it with the fixing nut.

Name of Section (ex.: Model BM-T-90S)

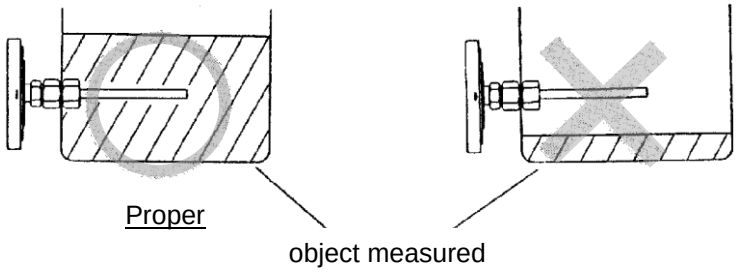


No.	Parts name	Materials
1	Lid	SUS304
2	Case	SUS304
3	Fixing nut	SUS304
4	Mounting screw	SUS304
5	Sensing stem	SUS304
6	Packing ring	NA Joint
7	Sensing element	Bimetal

Cautions

For your safety and proper use of the bimetal thermometer, be sure to observe the following:

- Properly insert the sensing stem into object. Otherwise, the accuracy of measurement is affected.



- In the following cases, it is desirable to use a well (option) for protecting sensing stem.
  a. The liquid to be measured is more than 50°C.
  b. More than 5 kg/cm2 pressure is applied on the sensing stem
     * If the case dia. is less than Ø75 mm, use a well (option) when the pressure is more than 2 kg/cm2.
  c. The object to be measured is corrosive.

- Check regularly that the mounting screw and fixing nut are securely tightened.
- Never disassemble or alter the thermometer, which may cause malfunctions.
- Do not alter, bend or bind the sensing stem, as doing so may break or damage the thermometers.
-To prevent injury, be careful of the sharp tip of the sensing stem especially when cleaning the stem after taking measurements.

Maintenance

For accurate measurements, it is desirable to confirm the accuracy of the bimetal thermometer in comparison with the standard thermometer once a year.

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X 3