



the temperature difference from the outside air disappears, the heat flux disappears and the output of the heat flux sensor becomes 0.



the ball and attempts to return to normal temperature, and a heat flux is generated from the outside to the inside of the ball. When

## Considerations

We successfully confirmed that the sensing of heat after air compression and expansion can be performed with a heat flux sensor. Compression and expansion of the air can be implemented in various kinds of mechanisms (compressor, cylinder, gas spring, etc), and when the sensing is done through a heat flux sensor, the operating states can be visualized.

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