

Visibility of Load Fluctuation on the PC CPU

Challenge



We want to see
the Heat Dissipation State against CPU Load

We cannot monitor
heat dissipation
depending on CPU Load

We want to see the CPU
Cooler heat dissipation in
an easy manner

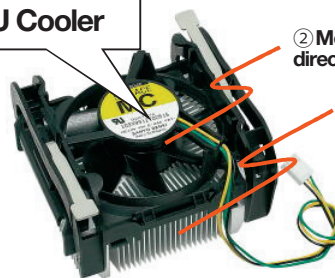
The Heat flux sensor
Solution!



CPU Load variation and
Heat Dissipation State Measurement Method

Measure the Heat Dissipation Amount
of the CPU Load

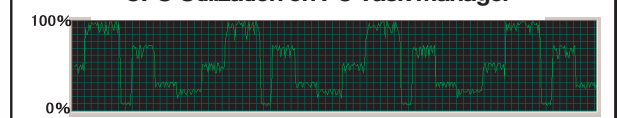
CPU Cooler



② Mount Heat Flux Sensor
directly below the fan

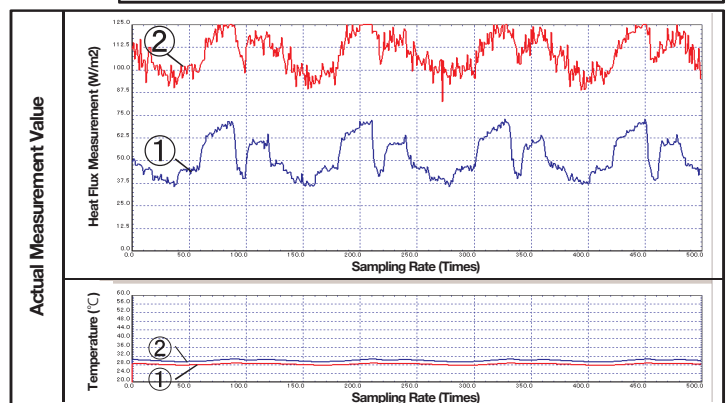
① Attach Heat Flux Sensor on
heat dissipation fin

CPU Utilization on PC Task Manager



Evaluation Results

It can be clearly seen that fluctuations in CPU
load and heat dissipation are correlated



The amount of heat dissipation against CPU load fluctuation is visible

