

## **Periodical Heating Method Thermal Diffusivity Measurement System FTC series**



**Easily evaluate thin film materials that are difficult to measure with the flash method.**

**This system measures thermal diffusivity in the thickness direction of solids such as film polymers, paper, and ceramics by using the AC joule heating method.**

**With specialized in room temperature measurement only, which is highly needed, a compact body and low cost have been achieved.**

**A patent and a standard**

**International standard for plastics  
Complies with ISO 22007-3**

## **Applications**

- **Thermal diffusivity measurements of film materials (thickness direction)**
- **Polymer films, heat dissipation sheets, electronic device materials, conductive materials, power devices, and other polymer materials**

## **Features**

- **Compared to the flash method, the thickness limitation of the sample is one-half or less, making it optimal for thermal property evaluations of thin polymer materials**
- **For polyimide-based samples, 10  $\mu\text{m}$  to 200  $\mu\text{m}$**
- **The detector has been widened so that it can measure at the surface of the sample, so measurements have high reproducibility**
- **Power saving (100 VAC 15 A, excluding computer)**
- **The installation area is about the size of A3 paper, less than half of the size of our conventional model (FTC-1)**

## Specifications

<b>Periodical Heating Method Thermal Diffusivity Measurement System FTC series</b>		
<b>Type</b>	<b>FTC-RT</b>	<b>FTC-1</b>
<b>Measurement Properties</b>	<b>Thermal diffusivity</b>	
<b>Temperature Range</b>	<b>RT</b>	<b>RT to 200 °C</b>
<b>Sample Size</b>	<b>Dimensions: 10 mm to 20 mm square</b> <b>Thickness: 10 μm to 200 μm (polyimide-based samples)</b> <b>20 μm to 300 μm (quartz glass)</b>	
<b>Measurement Atmosphere</b>	<b>Air</b>	<b>Inert gas, air</b>