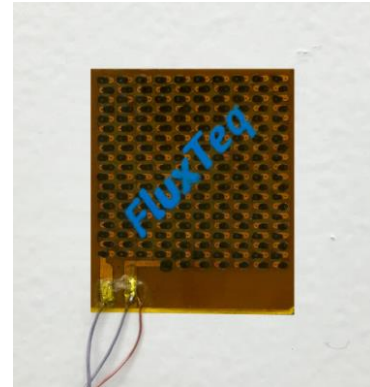


PHFS-01 Heat Flux Sensor Description

The PHFS-01 is the first low-cost heat flux sensor on the market. It has minimal thickness while still maintaining excellent sensitivity. Each sensor is calibrated individually and comes with a calibration certificate.

Potential Applications

- R&D of heat transfer components
- Energy efficiency of thermal systems
- Heat transfer education
- Wearable technology that detects calorie burn

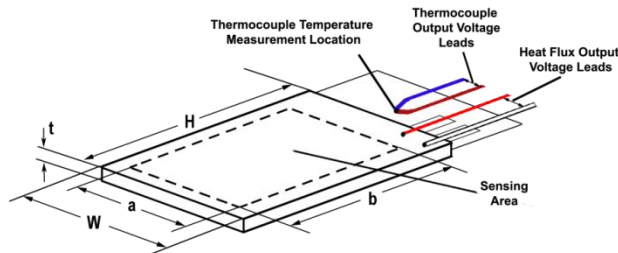


Heat Flux Sensor Specifications

Sensor Type	Differential-Temperature Thermopile
Encapsulation Material	Kapton (polyimide)
Nominal Sensitivity	Approx. 8.0 mV/(W/cm ²)
Sensor Thickness (t)	Approx. 380 microns
Specific Thermal Resistivity	Approx. 0.9 K/(kW/m ²)
Absolute PHFS Thermal Resistance	Approx. 1.0 K/W
Heat Flux Range	+/- 150 kW/m ²
Temperature Range**	-50 °C to 120 °C
Response Time*	Approx. 0.6 seconds
Sensor Surface Thermocouple	Type-T
Sensing Area Dimensions (cm)	a = 2.54 cm b = 2.54 cm
Total Sensor Dimensions (cm)	W = 2.7 cm H = 3.2 cm
Sensing Area (cm²)	6.45 cm ²
Total Sensor Area (cm²)	8.6 cm ²

*Response time is time for one time constant or 63% of sensor output signal to a heat flux step input

** Temperature range may be larger than specified. Further testing is being conducted.



For additional information about PHFS heat flux sensor specifications, applications, or general inquiries, use the following contact information or visit the FluxTeq website at www.FluxTeq.com

Direct General Inquiries To: info@FluxTeq.com Phone: +1-(540) 257-3735