

HTHFS-01 Heat Flux Sensor Description

The HTHFS-01 is fabricated solely from high temperature materials capable of extended operation at temperatures up to 1000 °C. It operates on the basic principle of measuring the temperature drop across a known thermal resistance using a thermoelectric thermopile to amplify the heat flux signal. Thermocouples are also used to monitor the surface temperatures of the sensor, which provides additional information on the state of the thermal system.

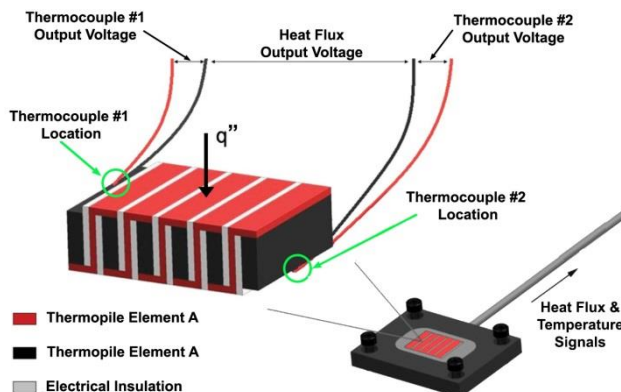
Potential Applications

- Measuring heat flux in high temperatures
- Combustion R&D
- Fire research
- Inquire about previous research publications using the HTHFS-01



Heat Flux Sensor Specifications

Sensor Type	Differential-Temperature Thermopile
Nominal Sensitivity	Approx. 300 $\mu\text{V}/(\text{W}/\text{cm}^2)$
Sensor Thickness (t)	3.175 mm
Maximum Operating Temperature	1000 °C
Sensor Surface Thermocouple	Type-K
Sensing Area Dimensions (cm)	L = 9.8 mm W = 5.7 mm
Total Sensor Dimensions (cm ²)	X = 25.4 mm Y = 12.7 mm
Sensing Area (cm ²)	56 mm ²
Total Sensor Area (cm ²)	325 mm ²



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

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