Ultra-09 Plate Heat Flux Sensor

www.FluxTeq.com info@fluxteq.com +1-540-257-3735

Ultra-Sensitive Plate Heat Flux Sensors

The Ultra-09 are the first low-cost ultra-sensitive plate heat flux sensors on the market. The high sensitivity design makes it ideal for accurately measuring relatively low-heat fluxes such as those seen in both building envelope and soil testing. A rigid, robust & water-proof construction makes the sensor durable and effective in various testing conditions.

Current Sensor Applications

- In-situ testing & validation of building envelope thermal performance
- Measure soil heat flux for geothermal studies
- Thermal monitoring of buildings

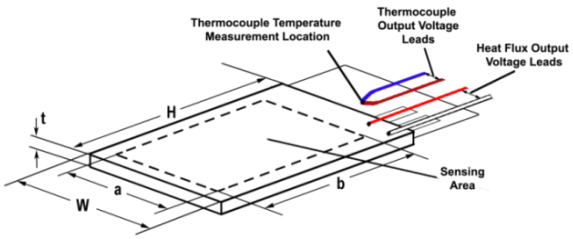
Heat Flux Sensor Specifications

Sensor Type	Differential-Temperature Thermopile
Encapsulation Material	Kapton (polyimide)
Temperature Range*	-20 °C to 200 °C
Sensor Surface Thermocouple	Type-T
Nominal Sensitivity	Approx. 1000 mV/(W/cm^2)
Sensing Area Dimensions	a = 6.8 cm b = 7.6 cm
Total Sensor Dimensions	W = 9.2 cm H = 8.7 cm
Sensing Area	52 cm^2
Total Sensor Area	80 cm^2
Sensor Thickness	1.5 mm
Thermal Conductivity	0.2 W/(m-K)
Absolute Thermal Resistance	1.25 K/W
Specific Thermal Resistivity	6.3 K/(kW/m^2)
Response Time	5 seconds

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

** Both sensing area dimensions as well as total sensor dimensions are subject to change.

Email: info@FluxTeq.com **Homepage:** www.FluxTeq.com **Phone:** +1-(540)257-3735
1800 Kraft Drive, Suite 109, Blacksburg, VA 24060-6370



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

Email: info@fluxteq.com Homepage: www.fluxteq.com Phone: (434)987-3528
125 N Main Street, Ste 500 #267 Blacksburg, VA 24060-3930