



HUKX

Sensor
Technology

Fact sheet
Foil heat flux sensors

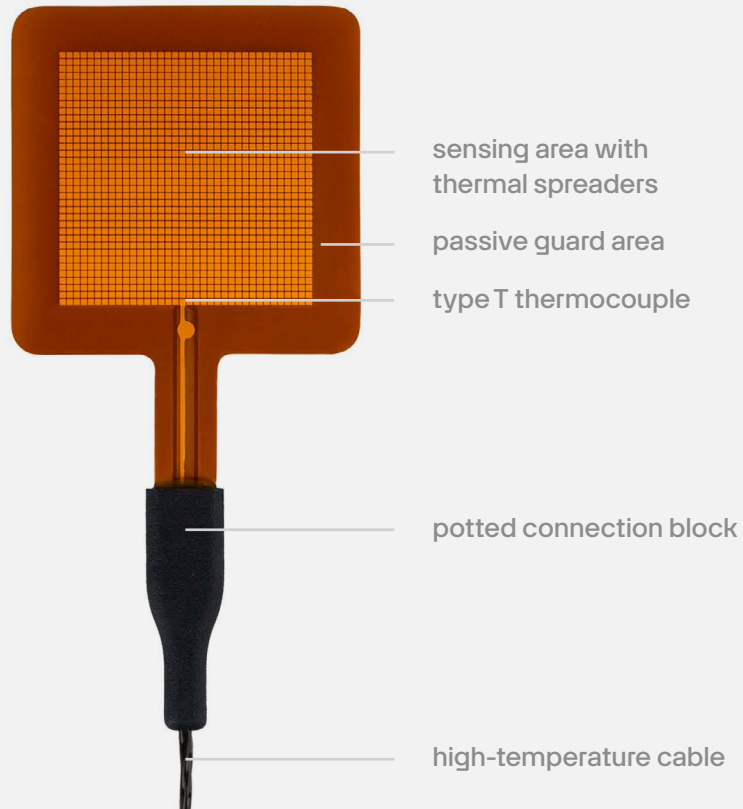
FHF05 series

FHF05 series

Foil heat flux sensors

thin, flexible and versatile

The FHF05 series are Hukx's standard models for thin, flexible, and versatile heat flux sensors. Available in five different sizes, they are designed to suit a wide range of applications. With an IP67 rating and a durable potted connection block, they operate effectively in both indoor and outdoor environments.



Robust and accurate

- thermal spreaders make the sensor's sensitivity environment-independent
- potted cable connection block provides strain relief
- IP67 rating ensures reliable performance for both indoor and outdoor applications

Versatile performance

- rated temperature range from -70 to +120 °C
- measures up to $\pm 91 \times 10^3 \text{ W/m}^2$ *
- extremely flexible: easily conforms to curved surfaces (radius $\geq 7.5 \times 10^{-3} \text{ m}$)
- simultaneously measures heat flux and sensor temperature with integrated type T thermocouple

Easy integration

- thin, low-mass design minimizes thermal disturbance
- compatible with a wide range of data acquisition systems
- passive guard enables easy mounting while reducing edge effects

Available in different sizes

- five different sizes, covering most heat flux applications
- larger models offer higher sensitivity and average over a wider area
- compact versions enable accurate measurements on small surfaces

Separate convection and radiation

- distinguish between radiative and convective heat flux using the optional GLD and BLK stickers
- GLD stickers reflect thermal radiation; BLK stickers absorb it
- fits all FHF05 series sensors

Best paperwork

- formally traceable calibration certificates with every FHF series sensor
- calibrated in accordance with ASTM C1130

* with a heatsink temperature of 20 °C see the user manual for more information

About Hukx

Hukx is the leading innovator in solar radiation and heat flux sensor technology. We are proud to set the standard in high-accuracy measurement, and to be working at the heart of the energy transition.

Customers worldwide rely on our bestselling pyranometers and heat flux sensors. From sensor design and selection to supply and recalibration, we support you across the entire lifecycle.

Hukx is headquartered in the Netherlands, with locally owned representative sales offices in the USA, Brazil, India, China, Southeast Asia, and Japan.

Let us help you select the best sensor for your application. Get in touch with our experts today via: info@hukx.com

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