



**HUKX**

Sensor  
Technology

Fact sheet  
Self-calibrating  
foil heat flux sensors

**FHF05SC**  
series

# FHF05SC series

## Self-calibrating foil heat flux sensors

Verify performance in place

The FHF05SC series combines thin, flexible heat flux sensors with an integrated foil heater for on-site self-tests. Activate the heater to verify functionality and stability without removing the sensor. Together with its robust IP67 rating, this makes the FHF05SC series ideal for high-accuracy, long-term heat flux measurements.



### Verifying performance in situ

- built-in foil heater enables on-site stability checks
- four-wire measurement captures heater power accurately
- delivers a high level of data quality assurance

### Versatile performance

- rated temperature range from -70 to +120 °C
- measures up to  $\pm 54 \times 10^3 \text{ W/m}^2$  \*
- extremely flexible: easily conforms to curved surfaces (radius  $\geq 15 \times 10^{-3} \text{ m}$ )
- simultaneously measures sensor temperature with 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

### 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

### Many available options

- available in two different sizes: 50 x 50 mm and 85 x 85 mm
- distinguish between radiative and convective heat flux using the optional GLD and BLK stickers
- multiple cable lengths available

### Best paperwork

- formally traceable calibration certificates with every FHF05SC 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](mailto:info@hukx.com)

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