



**HUKX**

Sensor  
Technology

Fact sheet  
Industrial heat flux sensor

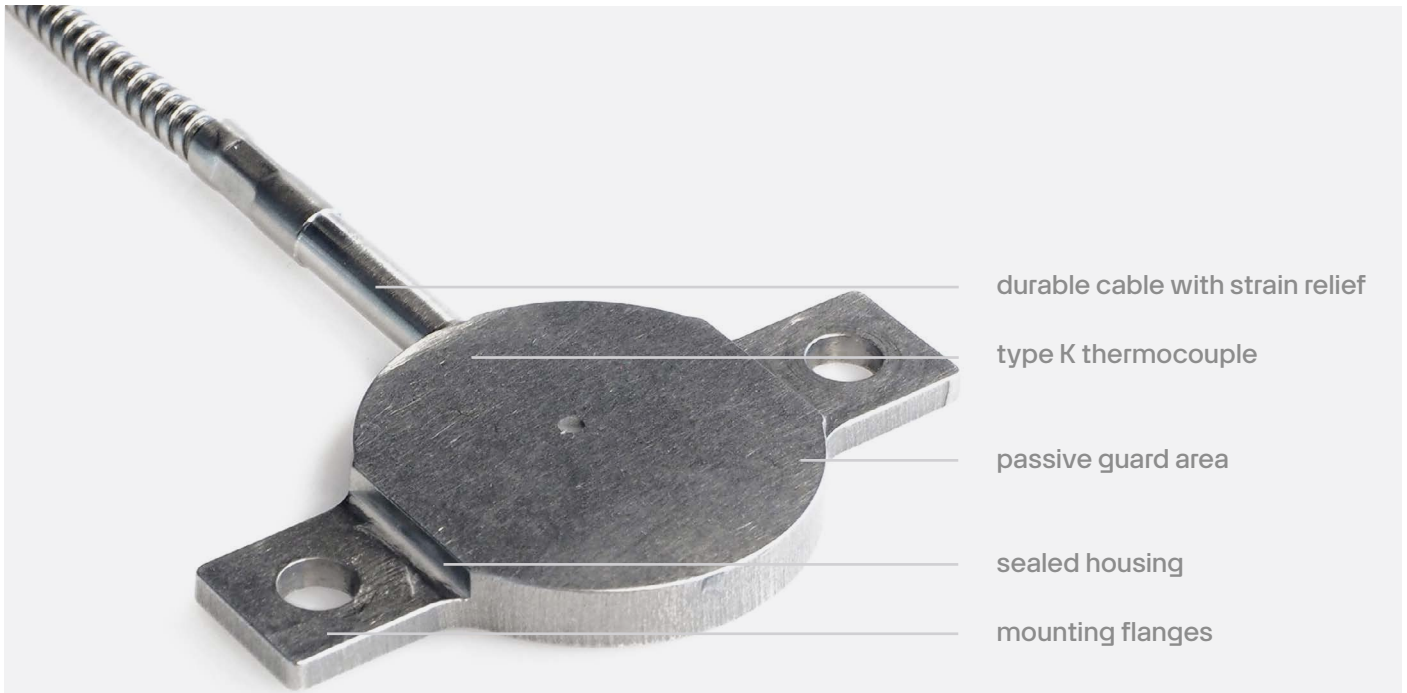
**IHF01**

# IHF01

## Industrial heat flux sensor

Reliable performance at extreme temperatures

The IHF01 is a robust industrial heat flux sensor engineered for high-temperature and high-pressure environments. With its fully sealed stainless steel body and armored high-temperature cabling, it delivers stable measurements under harsh conditions. This makes the IHF01 ideal for trend monitoring and comparative testing.



durable cable with strain relief

type K thermocouple

passive guard area

sealed housing

mounting flanges

### Built for the industry

- withstands high-pressure production processes up to 10 bar
- wide heat flux span:  $\pm 2600 \times 10^3 \text{ W/m}^2$ \*
- simultaneously measures heat flux and sensor temperature with integrated type K thermocouple

### Reliable and safe

- electrically insulated signal wires prevent ground loops and zero offsets for stable readings
- ensures electrical immunity in industrial environments

### Robust design

- IP67 rated: fully sealed stainless steel housing resists water and dust
- high-temperature, metal-sheathed cable with strain relief
- operates reliably at temperatures up to +900 °C

### Stable in demanding conditions

- designed for long-term trend monitoring and comparative testing
- low temperature dependence:  $< 0.1\%/\text{°C}$
- remains stable even when exposed to high heat fluxes for years

### Versatile installation

- includes mounting flanges for simple, secure installation
- optional black coating available to match emissivity of its surroundings
- suitable for both repeated installation or long-term fixed use

### Best paperwork

- formally traceable calibration certificates with every IHF01
- calibrated in accordance with ASTM C1130
- optional EC type examination certificate (ATEX) available

\* 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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