



HUKX

Sensor
Technology

Fact sheet
Industrial heat flux sensor

HF05

HF05

Industrial heat flux sensor

Accurate performance in demanding conditions

The HF05 industrial heat flux sensor is engineered for low-temperature industrial applications. Its durable construction, high sensitivity and wide operating range deliver reliable heat flux measurements in demanding industrial environments. With the HF05, you invest in accuracy, reliability, and long-term performance.



durable cable with strain relief

type K thermocouple

passive guard area

laser-welded sealed housing

mounting flanges

Built for the industry

- designed for industrial process monitoring
- wide heat flux range: $\pm 6000 \text{ W/m}^2$
- 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: laser-welded stainless steel housing with durable PTFE cable
- corrosion- and moisture-resistant stainless steel body
- includes mounting flanges for simple, secure installation

Accurate in demanding conditions

- operating temperature range: -30 to $+170 \text{ }^\circ\text{C}$
- low electrical resistance minimizes interference from nearby equipment or power lines
- passive guard area reduces deflection errors for greater accuracy

Industrial-temperature performance

- maintains high sensitivity in demanding industrial applications
- sensitivity $> 10 \times 10^{-6} \text{ V/(W/m}^2\text{)}$; critical for low-temperature processes
- ideal for measuring heat flux from catalytic cracking units

Best paperwork

- formally traceable calibration certificates with every HF05
- calibrated in accordance with ASTM C1130
- optional EC type examination certificate (ATEX) available

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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