



HUKX

Sensor
Technology

Fact sheet
High heat flux sensor

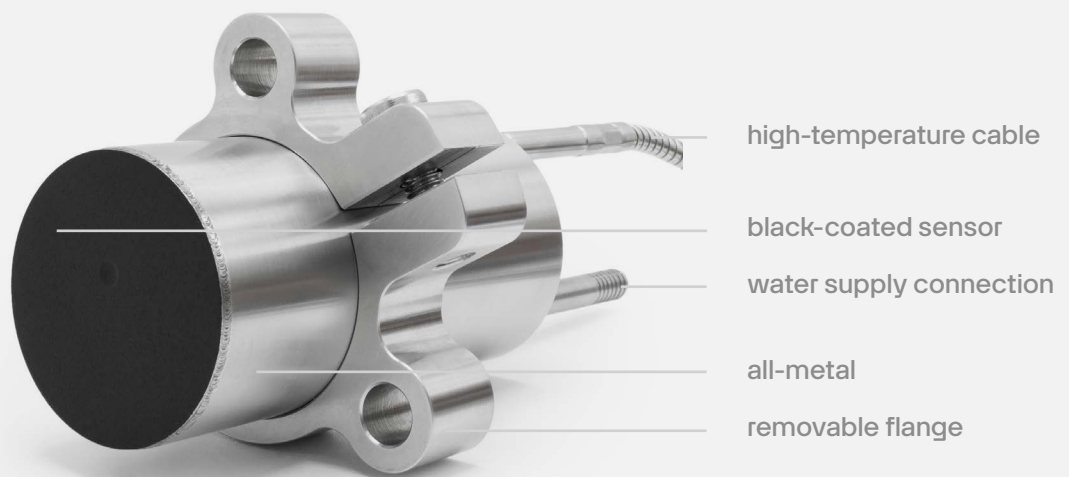
HFS01

HFS01

High heat flux sensor

Engineered for harsh industrial environments

HFS01 is an industrial water-cooled heat flux sensor engineered to withstand extreme radiative and convective heat flux levels. Its robust, all-metal body, high-temperature cabling, and IP67 rating deliver dependable measurements to with-stand challenging conditions in industrial applications. A removable mounting flange simplifies robust, repeatable installation.



Engineered for harsh environments

- high rated measurement range: up to $800 \times 10^3 \text{ W/m}^2$
- open detector measures both radiative and convective heat flux
- black absorber and sensor surface rated to $+650 \text{ }^\circ\text{C}$

Stable, dependable measurement

- small temperature dependence: $< 0.05 \text{ } \%/^\circ\text{C}$
- non-stability: $< 1\%$ /year (for typical use)
- integrated type K thermocouple monitors sensor body temperature

Robust construction

- all-metal/ceramics sensor and body with IP67 rating
- high-temperature, metal-sheathed cable rated to $+900 \text{ }^\circ\text{C}$
- rated cooling water pressure of 0 to 10 bar

Simple integration and installation

- passive sensor; no external power required
- supplied with removable mounting flange for simple, repeatable installation

Ideal for industrial applications

- robust construction withstands the harsh conditions found in heavy industry
- suitable for many applications like metal furnaces, refractories, and CSP

Best paperwork

- formally traceable calibration certificates with every HFS01
- calibrated in accordance with ASTM C1130

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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