



HUKX

Sensor
Technology

Fact sheet

Water-cooled heat flux sensor

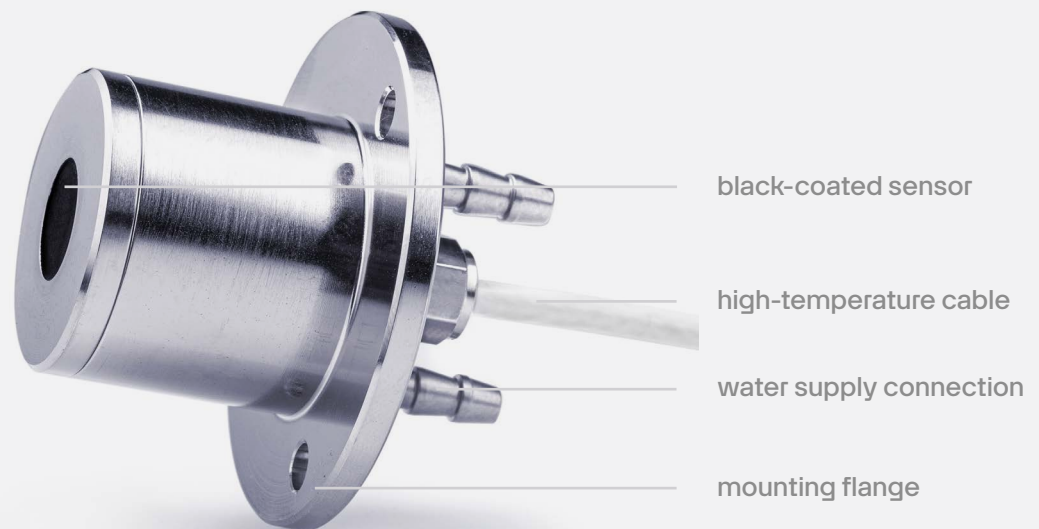
SBG01

SBG01

Water-cooled heat flux sensor

The standard in fire-testing applications

SBG01 is a water-cooled heat flux sensor and has rapidly become the sensor of choice for fire testing. Its novel design combines Gardon gauge and Schmidt-Boelter technology, providing dependable measurements across demanding radiant environments. Available in six measurement ranges, SBG01 is made to suit your needs.



Engineered for radiant environments

- rated measurement ranges:
(5, 10, 20, 50, 100, 200) $\times 10^3 \text{ W/m}^2$
- combines the best of Gardon gauge and Schmidt-Boelter technology
- ideal for fire-testing applications

Fast, stable and accurate

- ≤ 0.20 to 0.45 s (63 %) response time enables high-resolution measurements
- low temperature dependence:
 $< 0.1\% / ^\circ\text{C}$
- broad, near flat spectral response over $(0 \text{ to } 50) \times 10^{-6} \text{ m}$

Robust and proven hardware

- slightly recessed, scratch-resistant black absorber coating
- robust and serviceable water tubes
- supplied protection cap protects the black absorber during storage
- durable PTFE cable (-60 to $+200 \text{ }^\circ\text{C}$)

Simple and versatile integration

- practical flange for simple mounting
- optional integrated thermocouple for measuring sensor body temperature
- also available without mounting flange (SBG03)

World market leader

- trusted by the majority of fire-testing institutes worldwide
- successfully employed in flammability and smoke-chamber tests

Best paperwork

- formally traceable calibration certificates with every SBG01
- calibrated using the ISO 14934-3 secondary calibration method

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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