



HUKX

Sensor
Technology

Fact sheet
Gardon gauge heat flux sensor

GG01

GG01

Gardon gauge heat flux sensor

Designed for extreme radiant environments

GG01 is a water-cooled Gardon gauge designed for high heat flux levels. It is available in three rated ranges and includes a built-in type K thermocouple to monitor sensor body temperature. Its fast response time and robust water cooling make GG01 ideal for high-intensity, radiation-dominated applications.



Engineered for high heat flux

- rated measurement ranges: (250, 500, and 1000) $\times 10^3 \text{ W/m}^2$
- all-metal Gardon gauge design withstands very high heat flux levels
- designed for numerous applications like aerospace & defense, CSP, and R&D

Fast, stable and accurate

- $\leq 0.25 \text{ s}$ (63 %) response time enables high-resolution measurements
- low temperature dependence: $< 0.2 \text{ \%/}^\circ\text{C}$
- broad, near flat spectral response over (0 to 50) $\times 10^{-6} \text{ m}$

Robust and proven hardware

- every unit pressure-tested to 10 bar cooling-water operating pressure
- supplied protection cap protects the black absorber during storage
- durable PTFE cable rated from -30 to $+250 \text{ }^\circ\text{C}$

Simple and versatile integration

- practical flange for simple mounting
- integrated type K thermocouple monitors sensor body temperature
- optional sapphire window enables radiative-only heat flux measurements (GG01-250 only)

World market leader

- Hukx is the global leader in heat flux sensors
- SBG01 is trusted by the majority of fire testing institutes worldwide
- GG01 is the higher-intensity counterpart to SBG01

Best paperwork

- formally traceable calibration certificates with every GG01
- 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

© Hukx

Version 2501

We reserve the right to change specifications without prior notice.

www.hukx.com

HUKX