



**HUKX**

Sensor  
Technology

Fact sheet  
Heat flux plate/heat flux sensor

**HFP01**

# HFP01

## Heat flux plate/heat flux sensor

The industry standard

HFP01 is the world's leading heat flux sensor for soil and building applications. Its high sensitivity and long-term stability make it ideal for accurate heat flux measurements—even at low heat flux levels. Choosing the HFP01 means investing in proven performance and dependable data.



durable cable  
with strain relief

corrosion-proof  
plastic cover

sensing area with  
thermal spreader

passive guard area

ceramic-plastic  
composite body

### Built to last

- robust glued cable-to-sensor connection withstands rough handling and repeated installations
- IP67 rating ensures reliable performance in soil and building environments

### Continues measuring when others stop

- sensitivity of  $60 \times 10^{-6} \text{ V}/(\text{W}/\text{m}^2)$  enables measurements of very low heat fluxes: crucial in soil and building physics
- outperforms many competing sensors that lose signal quality at low flux levels
- measures heat flux up to  $\pm 2000 \text{ W}/\text{m}^2$

### Low resistance, minimal disturbance

- special ceramic-plastic composite body minimizes thermal resistance
- thermal resistance equivalent to just 1.4 mm of standard plastic, ensuring minimal disturbance to heat flow

### High-accuracy measurements

- passive guard area reduces errors due to edge effects
- temperature dependence of less than 0.1%/°C
- excellent long-term stability: non-stability < 1% per year

### World market leader

- more than 20 years on the market: proven performance and quality
- trusted by majority of building physics and meteorological institutes worldwide

### Best paperwork

- formally traceable calibration certificates with every HFP01
- 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](mailto:info@hukx.com)

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