

HF-01S

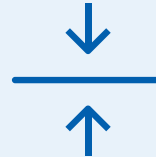
Standard Heat Flux Sensor



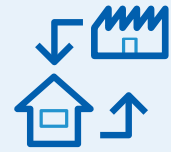
Overview

The HF-01S is a small size standard plate type heat flux sensor. It is an ideal option for research and engineering applications as well as manufacturing control and monitoring processes. Manufactured in compliance with standards ASTM C1046 and ISO 9869, EKO HF-10S includes a built-in thermal guard and two facings to ensure an even heat flux distribution and therefore a reliable measurement experience. The unique combination of small size, thin body, and high sensitivity, makes this sensor a perfect choice for accurate measurement of heat flux, even in low heat flux conditions. Thanks to the thin body and high thermal conductivity, the thermal resistance is kept very low to minimize the heat flux disturbance on the surface and avoid edge losses.

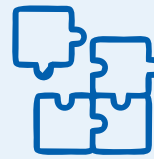
Features



Thin, compact form factor



Flexible options, suitable for a range of applications



Compatible with QRU-100 and QHT-10 thermal monitoring kits



Durable & versatile

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Heat Flux
Sensors

Sensor Specifications

Nominal Sensitivity	50 $\mu\text{V}/\text{W}/\text{m}^2$
Time Constant (63%)	0.7 sec
Thermal Resistance	$2.3 \times 10^{-3} \text{ m}^2 \text{ K}/\text{W}$
Electric Impedance	xxx
Operating Temperature Range	-30 to 80°C
Heat Flux Range	$\pm 10000 \text{ W}/\text{m}^2$
Temperature Dependency	0.02 %/°C
Dimensions (L x W x H)	25 x 24x 2.0 mm
Sensing Area	91 mm ²
Guard Width	5x thickness of the sensor
Calibration Uncertainty	$\pm 3 \%$ (K=2)
Ingress Protection	IP67
Cable Dimensions	3m (Diameter: 2.1 mm)
Extension Cable Options	10m, 20m (Separate Connector Included)
Accessories	Thermal Adhesive, Mounting Tape

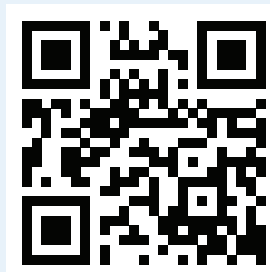
Application

Use HF-01S to measure the heat flux from or towards a surface of interest. This helps you evaluate the insulation performance of for instance, a wall. Install the sensor on building walls, refrigeration units, insulated enclosures, and any surface where the heat transfer rate is to be determined. Installation is straightforward, but must be done correctly to ensure accurate and reliable data. Follow the Quick Start Guide and the Demonstration video to install and measure.



QR

Use the QR code to visit our website, contact our team, or to find out more about the **HF-01S**, other related products, and the full range of industry-leading EKO sensors and instruments.



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