

## RADIATION MEASURING TECHNOLOGY

#### Heat Flux Plate HFP01

Part number: 7.1417.10.000

The sensor in HFP01 is a thermopile. This thermopile measures the temperature difference across the ceramicsplastic composite body of HFP01. A thermopile is a passive sensor; it does not require power. Using HFP01 is easy. It can be connected directly to commonly used data logging systems. The heat flux in W/m<sup>2</sup> is calculated by dividing the HFP01 output, a small voltage, by the sensitivity. The sensitivity is provided with HFP01 on its calibration certificate.

A typical measurement location is equipped with 2 or more sensors. HFP01 is the world's most popular sensor for heat flux measurement in the soil as well as through walls and building envelopes.



- low thermal resistance (essential for use on walls and windows)
- large guard area (required by the ISO 9869 standard)
- low electrical resistance (low pickup of electrical noise)
- high sensitivity (good signal to noise ratio in low-flux environments such as buildings)
- robustness, including a strong cable
- IP protection class: IP67 (essential for outdoor application)

# **Specification**

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Heat flux	
Measuring range	-2000 2000 W/m²
Sensitivity	60 μV/W/m²
Typ. signal output	-120 +120 mV
Sensor type	Thermocouples
Impedance	1 4 ê
Accuracy	±3 %
Time response	4 min
Temperature coefficient	0.1 %/K
General	
Ambient temp.	-30 +70 °C
Electr. connection	5 m cable
Protection	IP 67
Dimension	Ø 80 x 5.4 mm

0.2 kg



Weight



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information:





# Versions

No other versions of this product are available.

## Accessories

No accessories are available for this product.





information: