

Ordering Information

Heat Flux Sensors

- HFP01-L** Hukseflux Soil Heat Flux Plate with user-specified cable length; enter cable length, in feet, after the -L. Recommended cable length is 25, 50, 75, or 100 ft (8, 15, 23, or 31 m). Must choose a cable termination option (see below).
- HFP01SC-L** Hukseflux Self-Calibrating Soil Heat Flux Plate with user-specified cable length; enter cable length, in feet, after the -L. Recommended cable length is 25, 50, 75, or 100 ft (8, 15, 23, or 31 m). Must choose a cable termination option (see below).

Cable Termination Options (choose one)

- PT** Cable terminates in stripped and tinned leads for direct connection to a datalogger's terminals.
- PW** Cable terminates in connector for attachment to a prewired enclosure.



The HFP01 is intended for applications that do not require self calibration.

Specifications

Sensitivity (nominal):	50 $\mu\text{V W}^{-1} \text{ m}^2$
Nominal Resistance:	2 W
Temperature Range:	-30° to +70°C
Plate Thickness:	0.20 inch (5 mm)
Plate Diameter:	3.15 inch (80 mm)
Weight (w/o cable):	7.05 oz (200 g)

HFP01

Sensor:	Thermopile
Sensor Thermal Resistance:	$<6.25 \times 10^{-3} \text{ Km}^2 \text{ W}^{-1}$
Range:	$\pm 2000 \text{ W m}^{-2}$
Expected Typical Accuracy (12 hour totals):	within -15% to +5% in most common soils

HFP01SC

Sensor:	Thermopile with film heater
Expected Accuracy:	$\pm 3\%$ of reading
Heater Resistance:	100 ohms (nominal)
Heater Voltage Input:	9 to 15 Vdc
Heater Voltage Output:	0 to 2 Vdc
Duration of Calibration:	± 3 minutes @ 1.5 Watts; typically performed every 3 to 6 hours
Average Power Consumption:	0.02 to 0.04 W

