



## Mod. **SFT**

### Soil Heat Flux Sensor

## Highlighted specs

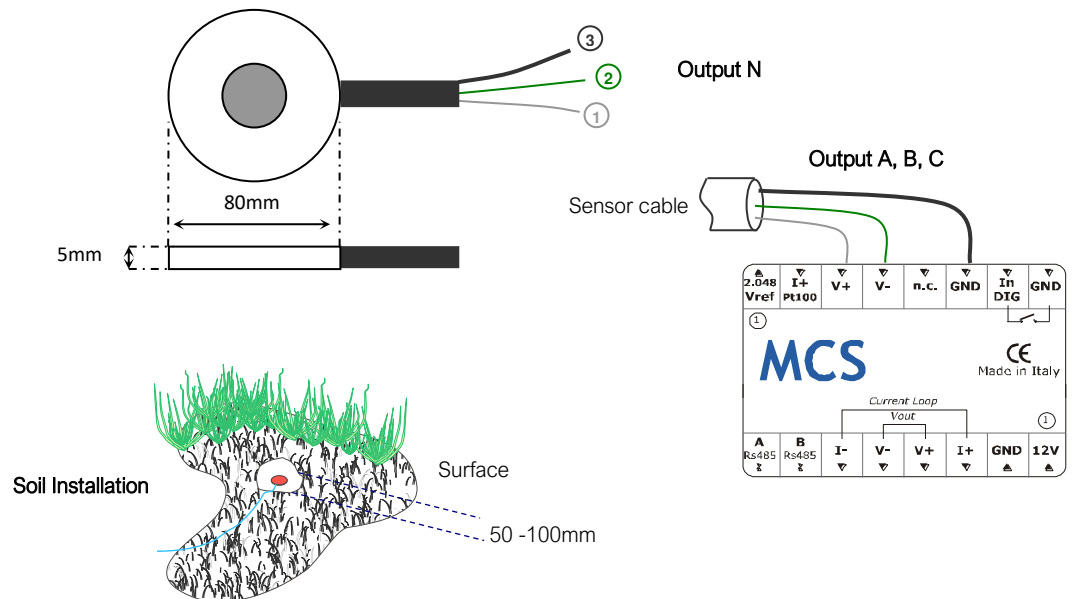
- Accurate and reliable ground thermal flux sensor
- Limited dimensions and weight
- Thermopile natural output
- Accuracy  $\pm 5\%$
- ISO8302 standards compliant
- According to **CE** norms

**Thermopile** transducer capable of detecting the heat flow passing through it. Particularly suitable in **agrometeorology** to determinate the heat flow in the ground, which is important for the control of germination, plant rooting or development of pathogenic elements for cultures, in **geology** for the definition of the state of the soil de-icing and the analysis of the thermal balance etc. The sensor has an output with electrical signal in **mV** (natural output from thermopile), normalized voltage or current (4-20mA or 0 ÷ 2Vdc), or digitally via RS485 Modbus interface MCS.

Typical range	-2000 ÷ +2000 Wm <sup>2</sup>
Sensibility	50 $\mu$ V/(Wm <sup>2</sup> )
Accuracy	< $\pm 5\%$ standard soils
Thermal resistance	< 6.25 10 <sup>-3</sup> Km <sup>2</sup> /W
Response time	< 200sec
Stability in long time	< $\pm 2\%$
Type of transducer	Thermopile
Signal output	50 $\mu$ V/W/m <sup>2</sup> from thermopile; 0÷2Vdc, 4÷20mA or RS485 ModBus with MCS option
Working conditions	-30°C ÷ +70°C
Standard cable	5mt
Material	Ceramics-plastic composite
Weight	< 200g

## Size and connections

Wire	SFT-N
1 – White	Signal (mV)
2 – Green	Gnd/ V-
3 – Clear	Shield



## Order Code

Sensor	Output	Accessories	SFT		
Soil Heat Flux Sensor	0÷2Vdc (MCS option) 4÷20mA (MCS option) RS485 / Modbus (MCS option)	CS05 – Cable 5m sensor-datalogger CS10 – Cable 10m sensor-datalogger CSxx – Cable xx* m length, sensor-datalogger – to be specified at order		A B C	05 10 xx
		SSU - Support L = 700-750mm for fixing sensor $\varnothing$ 40mm and clamping jaw to poles $\varnothing$ max 60mm			SSU

\*specify the length for no standard measures

example of order code

SFT

B

10

SSU