



## MF-180M Heat flux sensor

### Technical Specifications

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Waterproof and durable design

Teflon substrate heatflux sensor

Small size and profile

Calibration complies with JIS A 1412

Similar to the MF-180 but waterproof and durable design for soil heat flow measurement. All sensors are extremely flat, which is a big advantage considering the minimum interference with the conditions of the testing area the thermal dynamics. The low output Voltage of the heat flow sensor can be easily converted to a 4-20mA current or higher Voltage using the MS-4..20mA converter. The mV/mA converter can be pre-programmed and optimized within the operating range compatible with common measurement equipment.

	<b>MF-180M</b>
<b>Response time 95%</b>	13 Sec.
<b>Sensitivity</b>	Approx. 25 $\mu\text{V}/\text{W}/\text{m}^2$
<b>Thermal resistance</b>	Approx. 0.0015 $^{\circ}\text{C}/(\text{W}/\text{m}^2)$
<b>Impedance</b>	150 - 550 $\Omega$
<b>Operating temperature range</b>	-20 - 120 $^{\circ}\text{C}$
<b>Cable length</b>	10 m
<b>Dimensions mm</b>	50 (L) x 25 (W) x 1.2 (H)
<b>Weight</b>	0.001 kg
<b>Ingress protection IP</b>	65
<b>Substrate</b>	Teflon
<b>Cladding</b>	Carbon FRP
<b>Cable length</b>	10 m

<b>Options</b>	<b>MF-180M</b>
<b>Cable length</b>	20 or 30 m

Specifications are subject to change without further notice.