



MF-180M Heat flux sensor

Technical Specifications

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.

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

Options	MF-180M
Cable length	20 or 30 m

Specifications are subject to change without further notice.