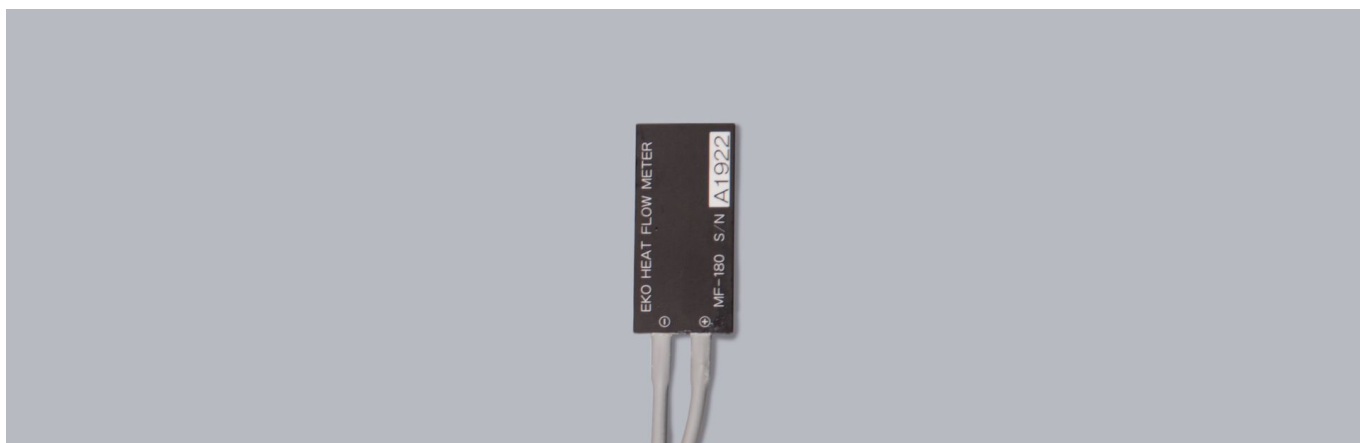




MF-180 Heat flux sensor

Technical Specifications

Thin heatflux sensor

High sensitivity

Small size

Calibration complies with JIS A 1412

The MF-180 has a high sensitivity, small size suitable to measure low heat flow values. Heatflux sensors can be used in a variety of research applications and manufacturing control processes. EKO has various types of thin substrate heat flux sensors in the product line-up. A heatflux sensor is a thermopile sensor which generates an electric signal proportional to the ΔT across the thermocouple hot and cold junctions. To generate a measurable voltage heat flux sensor have a multiple of thermocouples spread over the total area and connected in series. EKO heatflux sensor are available in different sizes and thickness.

	MF-180
Response time 95%	25 Sec.
Sensitivity	Approx. 28 $\mu\text{V}/\text{W}/\text{m}^2$
Thermal resistance	Approx. 0.0014 $^{\circ}\text{C}/(\text{W}/\text{m}^2)$
Impedance	150 - 550 Ω
Operating temperature range	-30 - 120 $^{\circ}\text{C}$
Cable length	10 m
Dimensions mm	40 (L) x 20 (W) x 0.9 (H)
Weight	0.0011 kg
Ingress protection IP	-
Substrate	Teflon
Cladding	Polyester
Cable length	10 m

Options	MF-180
Cable length	20 or 30 m

Specifications are subject to change without further notice.