

# QRU-100

## Thermal Monitoring Kit For Buildings



### Overview

The QRU-100 is designed to make measuring the thermal properties of buildings easy, efficient, and accurate.

A critical requirement for modern construction, renovation, quality assurance, and energy efficiency assessment, the QRU-100 thermal monitoring kit includes separate indoor and outdoor measuring units. Indoor heat flux monitoring, together with indoor and outdoor temperature sensors, allow the QRU-100 to measure both thermal transmittance and thermal resistance, the U and R-Value of a wall or other building components based on the standard methods defined in ISO 9869, ASTM C1046 and ASTM C1155.

Each measuring unit contains a high-resolution datalogger, pre-configured and ready to use, housed in a weather-resistant case, equipped with a long-life battery, and can store up to 4 million data points.



### General Specifications

Number of measurement points	3
Logger Operating temperature range	-40 to +90°C
Data storage	4 Million Data points
Datalogger battery life	Interval: >1 min : 4 years - 10s : 230 days
Battery type of the data logger	Lithium type SL-750/S
Interface	USB to PC
Software	InfraLog 5
Measurement unit IP level	IP66, IP68
Transport case IP level	IP67
Weight (Measurement unit)	0.335 kg
Weight (incl Transport case)	2.5 kg
Dimensions (Measurement Unit)	113 x 80 x 60 mm
Dimensions (Transport case)	350 x 295 x 150 mm

## Sensor Specifications

Heat flux sensor type	EKO MF-180
Heat flux sensor nominal sensitivity	approx. 28 $\mu\text{V}/\text{W}/\text{m}^2$
Heat flux range	$\pm 1500 \text{ W}/\text{m}^2$
Heat flux sensor temperature range	-30 to 120°C
Temperature Sensor type	PT-1000, 4-wire
Temperature sensor accuracy	1/10 DIN class
Temperature Sensor Range	-60 to 180°C
Sensor Cable Length	3 m



MF-180 Heat Flux Sensor

### QR

Use the QR code to visit our website, contact our team, or to find out more about the **QRU-100**, other related products, and the full range of industry-leading EKO sensors and instruments.



### Explore EKO

Made in Japan for over 90 years, EKO solar energy sensors and environmental instruments are built on a legacy of innovation, an uncompromising commitment to quality, and industry-leading accuracy.

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Thermal Cond. Testers



Heat Flux



Temperature Sensors



UV Sensors



Pyranometers



Pyrhemometers



Pyrgeometers



Sunshine Duration Sensors



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