

- Accurate U-Value and R-Value Measurements
- Wireless measurement set-up
- 5 Measurement Points at Once
- Quick and Easy Installation
- Measurement of Surface, Room and Outdoor Temperatures
- ISO 9869 and ASTM 31046/C1155 verifying software



greenTEG has developed a second generation wireless measurement solution that is capable of scaling to 5 U-Value measurement points.

WHY OBTAIN THE U-VALUE?

The U-value is the most important parameter to determine the energy demand of a building. With greenTEG's gOMS II system, it is possible to measure the U-value accurately and easily.

greenTEG is the leading provider of U-value measurement solutions to quantify the insulation quality of buildings.

How is the U-Value Measured?

Two measurement nodes are needed for each U-value measurement. Node Type 1 is placed inside the building and measures the room temperature (T_{in}), the heat flux through the wall (q), and the wall's inside surface temperature. Node type 2 is placed outside the building and measures the outside temperature (T_{out}), and the wall's outside surface temperature.

The U-value is calculated as the arithmetic mean of all measured data points during the entire measurement period:

$$U = q / (T_{in} - T_{out})$$

Typical Users:

Energy Consultants

Architects

Building Physics Engineers

Insulation Manufacturers

Property Appraisers

Researchers



System Specifications:

Application:	Required Type 1 Nodes:	Required Type 2 Nodes:
U-Value Assessment:	1 - (Inside)	1 - (Outside)
R-Value Assessment:	1 - (Inside)	1 - (Inside)

Node Type:

Contents:

Inner Node

- 1 x Combined Heat Flux and Surface Temperature Sensor
- 1 x Ambient Air Temperature Sensor

Outer Node

- 1 x Surface Temperature Sensor
- 1 x Ambient Air Temperature Sensor