U-Value Measurement Solutions

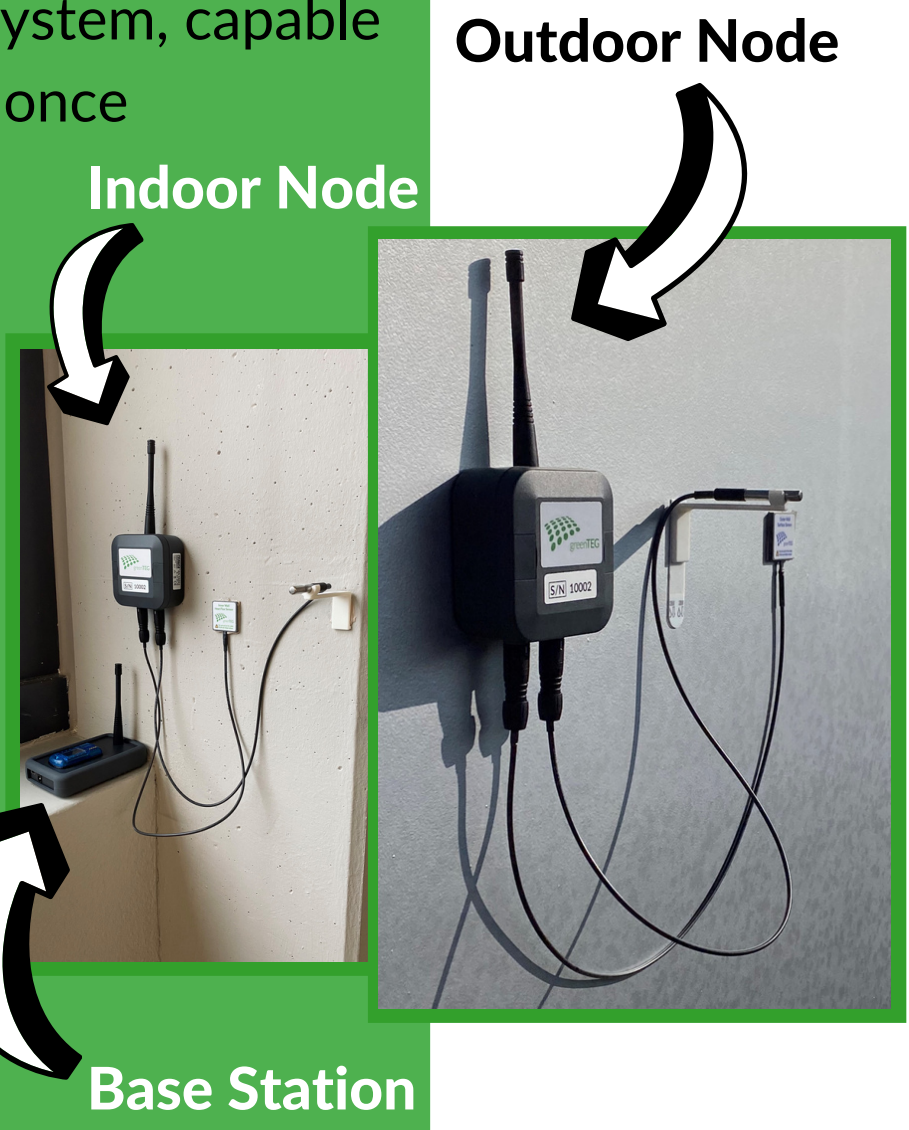
ISO 9869 compliant measurement systems for **U-Value**, **Temperature** and **Heat Flux** measurement to evaluate the thermal performance of your building element

greenTEG

gOMS II

Wireless U-Value and R-Value Measurement System

gOMS II is a **wireless and modular** **U-Value** measurement system, capable of measuring **5 points** at once



How does it work?

Measurement devices called **nodes** are placed on the **inside** and **outside** of a **façade**, the **information recorded** from these **nodes** is communicated to the **base station**. The **base station** collects and **calculates** the **U-Value** with this information.

Included Features:

- Up to **5 U-Value Measuring Points** per system
- Wireless Indoor **Range of 50m**
- **R-Value** (thermal conductivity) also obtainable
- **IP67** Rated Node
- **ISO 9869** Measurements
- **Patented** gSKIN® Heat Flux sensing Technology
- Compact **Travel Case** for Hardware
- **CSV Export** Function
- **Instruction Manual** and Mounting Guides

U-Value Kit

U-Value and Heat Flux Measurement Kit

Our standard U-Value measurement kit, used by engineering firms and research institutions around the world for ISO conforming measurements

How does it work?

A heat flux sensor and ambient temperature sensor are placed on the inside façade, with a second ambient temperature sensor placed on the outside façade.

A data logger stores all information and computed the U-Value when plugged into software on the PC.

Included Features:

- ISO 9869 Measurements
- Patented gSKIN Heat Flux sensing Technology
- Compact Travel Case for Hardware
- Instruction Manual and Mounting Guides

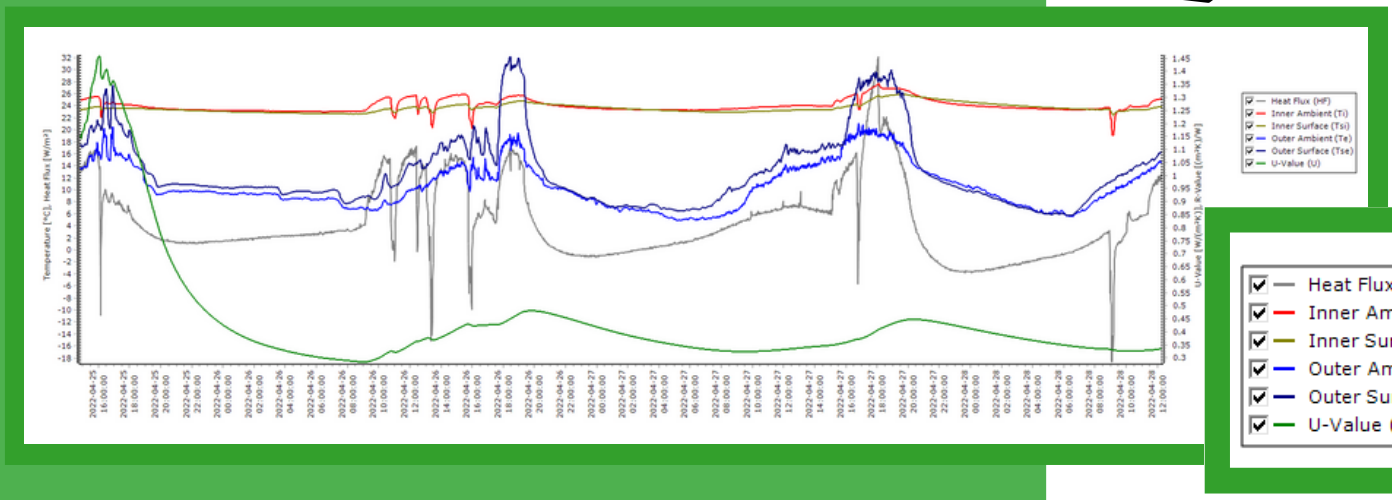
Software

Software included upon purchase

greenTEG's analysis software for both **gOMS II** and **U-Value kit** allow for:

- Real-time analysis
- CSV Export
- Report generation
- ISO 9869:1 Conformity Indication

Software Graph



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Measurement results:

Logger data:

Measurement system:	gOMS II
Base Station serial number:	502285
Inner Node serial number:	10066
Outer Node serial number:	10067

U-Value analysis:

Total measurement duration:	91.61 h	Average values:	
Analysis start time:	2022-04-26 10:26:40	Heat Flux (HF):	4.17 W/m²
Analysis end time:	2022-04-29 10:26:40	Inner Ambient Temp. (Ti)	24.09 °C
Analysis period:	72 h	Inner Surface Temp. (Tsi)	23.77 °C
dR2/3:	1.96 %	Outer Ambient Temp. (Te)	11.36 °C
		Outer Surface Temp. (Tse)	13.64 °C

U-Value (U):	**0.332 W/(m²K)**
R-Value (R):	**2.376 (m²K)/W**

Measurement data fulfils requirements of ISO 9869-1:2014 section 7.1.
Uncertainties due to improper installation or environmental influences must be estimated by user (see section 6.1).

Overall analysis period: t=91.61 h

Final **U-Value** display with **ISO Verification**

Interested?

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