



Brochure

Thermal Transmittance Measurement Solutions

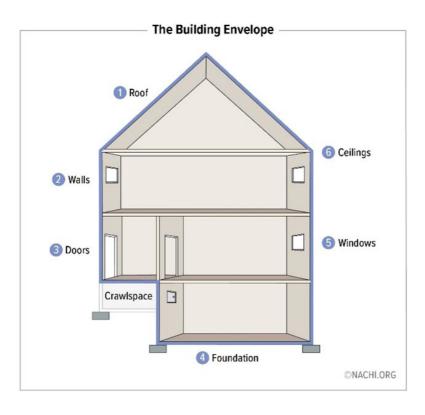
Swiss-patented ISO 9869 compliant measurement systems for U-Value (R-Value), temperature, and heat flux



A precise way to measure your building's U-Value

Our building^{gt} product series supports construction professionals in damage investigations, inspections, and renovation planning.

A cutting edge system designed for in-situ U-value measurement, the building^{gt} series provides vital building calculations from values such as heat flux and temperature.



The building series consists of two U-Value measurement solutions, **UVAL Wired** and **UVAL Wireless**. These are **calibrated**, **plug-and-play** measurement kits that deliver reliable data, allowing accurate and non-invasive assessment of thermal transmittance in construction particularly for different building envelopes like walls, roofs, floors, and windows.

Accurate & Non-Invasive In-Situ U-Value Measurement

Traditionally, assessing a building's energy efficiency requires invasive methods like dismantling walls or relying on inaccurate assumptions and estimates.

The buildinggt series offers a non-invasive, accurate solution for evaluating thermal efficiency, giving users a clear and reliable assessment of their building's performance.



Assessing the Status Quo

Designed to measure U-value with precision, ensuring compliance with regulatory standards



Building Energy Rating

Obtain quantitative values to complement energy assessment methodologies and ensure full transparency



Retrofitting Evaluation

Accurate U-value assessments empower informed decisions on renovation



Measuring Novel Materials

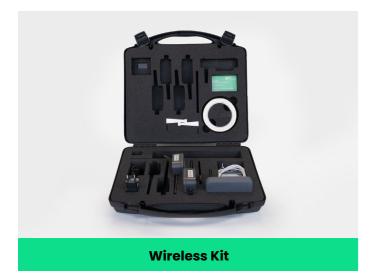
Ideal for R&D and quality control purposes, ensuring precise assessment of innovative materials

building

Available in Both Wired and Wireless Configurations

Experience flexibility in connectivity options with our product, available in both wired and wireless configurations. Whether you prioritize the affordability of a wired connection or the convenience of wireless technology, we have a solution to suit your needs.





ISO-Conforming All devices take measurements according to ISO 9869.

building ^{9t}

Swiss-Patented Our Swiss, cutting-edge solutions are trusted by researchers and industries around the world.

Plug & Play Sensor calibration data already loaded onto logger for fast plug-and-play measurements.

Reliable & Precise Our kits enable accurate thermal measurements and efficiency assessments

Non-Invasive Our solution delivers thermal measurements without intrusive methods like drilling or dismantling, ensuring minimal disruption.

	Wired	Wireless
Product Name	UVAL Wired System	UVAL Wireless System
ISO 9869 Measurements		\checkmark
Swiss-Patented gSKIN Heat Flux sensing Technology		✓
Remote Measurement Access	8	✓
Software with CSV Export Function	⊘	\checkmark
R-Value (thermal conductivity) also obtainable	Must be calculated manually	✓
Multiple Measuring Points Capability	Only 1 U-Value Measuring Point per system	Up to 5 U-Value Measuring Points per system
Other Features		- IP67 Rated Node - Wireless Indoor Range of 50m
Inclusions	Device: 1 gSKIN® Heat Flux Sensor 1 gSKIN® DLOG Data Logger with 2 temperature sensors Accessories: 1 USB cable (PC to data logger) 1 Roll of Double-Sided Adhesive Tape Instructions and Manual: 1 Calibration sheet 1 Instruction manual	Device: Base Station Nodes (may order more) 1 Inner Wall Heat Flux Sensor 1 Outer Wall Surface Sensor 2 Ambient Temperature Sensors Accessories: 2 Ambient Sensor Mounting Clips 1 Roll of Double-Sided Adhesive Tape 1 Bag of Double-Sided Adhesive Water Repellent Strips 1 Pair of Scissors Instructions and Manual: 1 Calibration sheet 1 Instruction manual
Geographic Coverage	Worldwide	Available in Europe, most of Africa and the Middle East. Employs a sub-GHz Communication link at 868 MHz.
Price	CHF 1,949.00	CHF 2,399.00 for 1 measurement point, additional cost for more points.

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About the software

greenteg's analysis software, compatible with both wired and wireless kits, empowers users with a comprehensive suite of features.

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

Software graph: ✓ — Heat Flux (HF) ✓ — Inner Ambient (Ti) ✓ — Inner Surface (Tsi) Outer Ambient (Te) Outer Surface (Tse) ✓ U-Value (U) Final U-Value display with ISO Logger data: Verification Base Station serial number Outer Node serial number Analysis start time: 2022-04-26 10:26:40 Heat Flux (HF): 4.17 W/m² 2022-04-29 10:26:40 Analysis end time: 23.77 °C Analysis period: Inner Surface Temp. (Tsi) -0.24 % 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).

Our clients

Our clients come from diverse roles within the building construction industry, spanning engineers, researchers, and environmental consultants.

Here are some of our esteemed clients:















greenteg

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