

# Comparison: gSKIN U-Value KIT - gO Measurement-System

## gSKIN U-Value KIT



### Overview

- Measurement-System consisting of **two thermocouples and one heat flux sensor**, connected to a data logger; not extendable
- **In-situ U-Value Measurement** (according to ISO 9869/ASTM C1046/ASTM 1155)
- **Cable-based** data transmission, **local data storage** and data analysis with supplied software
- Price: CHF 1749<sup>1</sup>

### Application areas

- Assessment of status quo before energy oriented refurbishment
- Building inspection
- R&D

## gO Measurement-System



- Measurement-System consisting of a **base station** and up to **16 measurement nodes**
- **In-situ U-Value Measurement** (according to ISO 9869/ASTM C1046/ASTM 1155) and non-invasiv R-value and humidity measurements
- **Wireless system** (LoRaSC), **cloud-based** data storage (Microsoft Azure) and analysis tool
- Price:
  - gOMS from CHF 2990<sup>1</sup>
  - CHF 250<sup>1</sup> / year for cloud and mobile internet access

- Assessment of status quo before energy oriented refurbishment
- Building inspection
- R&D
- Mould detection
- Long time monitoring of storages and archives

<sup>1</sup> excl. VAT, RRP

## Advantages

- ✓ Heat flux base U-value measurement according to ISO 9869
- ✓ Reliable quantitative data
- ✓ Accurate U-value measurements already from a 5°C temperature difference
- ✓ Non-invasive measurements
- ✓ Easy data analysis with supplied software
- ✓ Cost-effective entry model

- ✓ Heat flux base U-value measurement according to ISO 9869
- ✓ Reliable quantitative data
- ✓ Accurate measurements already from a 5°C temperature difference
- ✓ Non-invasive measurements
- ✓ User-friendly, cloud-based analysis tool, allows for easy data management and remote live-monitoring
- ✓ R-value measurement
- ✓ Investigate mildew through a combination of humidity and surface temperature measurements
- ✓ Wireless design ensures easy measurement set-up
- ✓ Great wireless range (LoRaSC) and independent from WiFi-connectivity

## Technical data

- Measurable parameters
  - Heat flux (+/- 3%)
  - Ambient air temperature (+/- 0.1°C)
- Battery life
  - 30 days
  - Rechargeable with USB-connector
- Operating modes:
  - Data stored locally on data logger
  - Analysis, live monitoring and data download with supplied software
- Connectivity
  - USB connector

- Measurable parameters
  - Heat flux (+/- 3%)
  - Ambient air temperature<sup>2</sup> (+/- 0.1°C)
  - Surface temperature (+/- 0.1°C)
  - Humidity (+/- 2%)
- Battery life
  - Base station<sup>3</sup>: 2-3 days
  - Nodes<sup>2</sup>: up to 7 days
  - Rechargeable with USB-C power supply
- Operating modes:
  - Data stored online in cloud (MS Azure)
  - Analysis, live monitoring and data download via cloud-based analysis tool
- Connectivity:
  - Mobil connection between base station and cloud
  - LoRaSC between base station and nodes

<sup>2</sup> Only valid for temperature sensors included in node type 1/2; combined humidity/temperature sensor node type 3: +/- 0.3°C

<sup>3</sup> Will be increased through software updates