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

gSKIN U-Value KIT	gO Measurement-System

Overview

gSKIN U-Value KIT	gO Measurement-System
• Measurement-System consisting of **two thermocouples and one heat flux sensor**, connected to a data logger; not extendable	• 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)	• **In-situ U-Value Measurement** (according to ISO 9869/ASTM C1046/ASTM 1155) and non-invasiv R-value and humidity measurements
• **Cable-based** data transmission, **local data storage** and data analysis with supplied software	• **Wireless system** (LoRaSC), **cloud-based** data storage (Microsoft Azure) and analysis tool

• Price: CHF 1749[1]	• Price:
	  o gOMS from CHF 2990[1]
	  o CHF 250[1] / year for cloud and mobile internet access

Application areas

gSKIN U-Value KIT	gO Measurement-System
• Assessment of status quo before energy oriented refurbishment • Building inspection • R&D	• Assessment of status quo before energy oriented refurbishment • Building inspection • R&D • Mould detection • Long time monitoring of storages and archives

[1] 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[2] (+/- 0.1°C)
	  – Surface temperature (+/- 0.1°C)
	  – Humidity (+/- 2%)
	• Battery life
	  – Base station[3]: 2-3 days
	  – Nodes[2]: 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

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

[3] Will be increased trough software updates