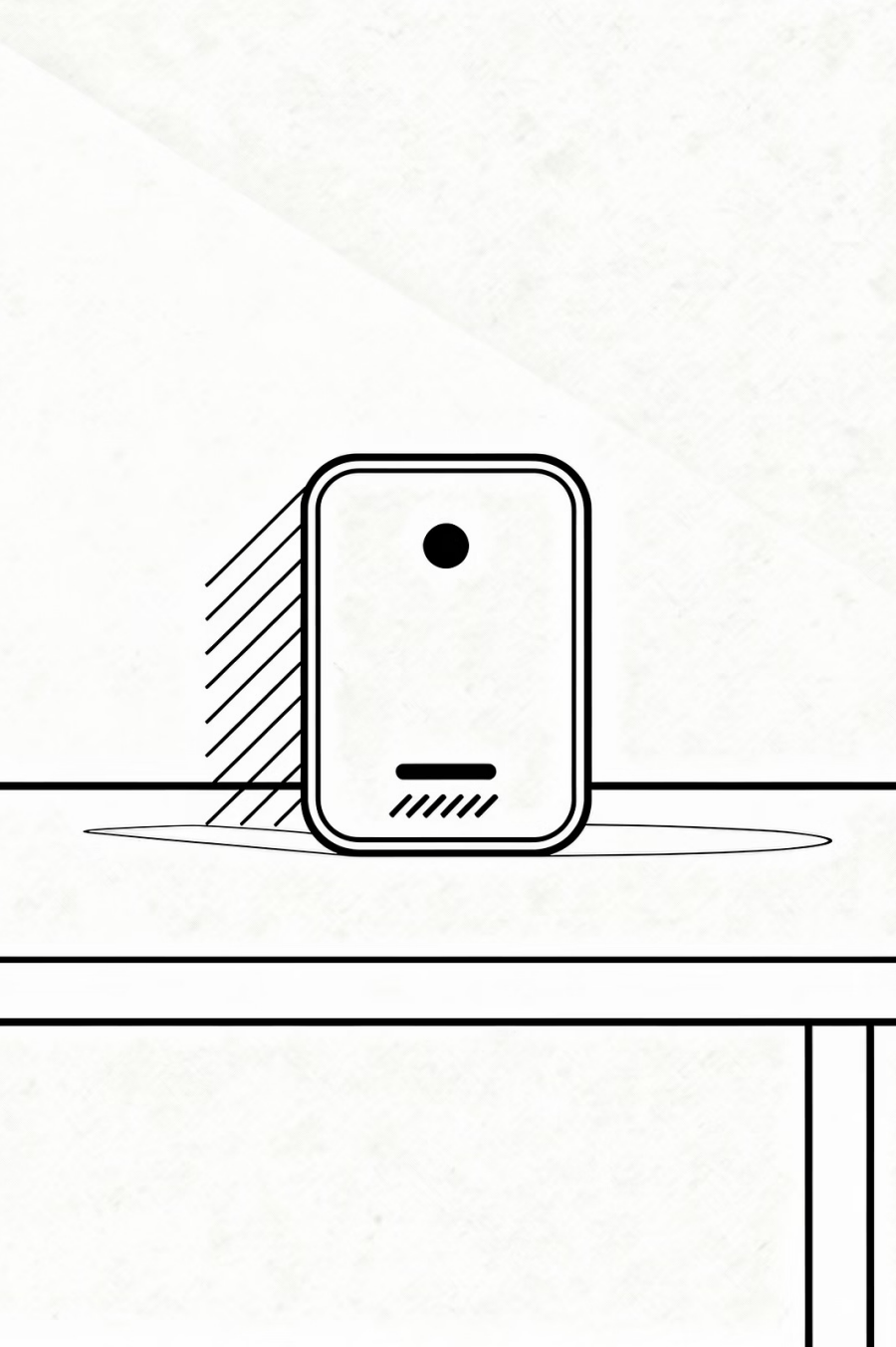




Smart Eco

A LoRaWAN indoor climate sensor measuring **temperature, humidity, and light intensity** — powered entirely by an organic solar cell, housed in biodegradable material. Battery-free, wireless, and built for a sustainable future.

[SMART-ANGEL.CO.UK](https://smart-angel.co.uk)

Product Features



Triple Sensing

Measures temperature, humidity, and light intensity in one compact device.



Biodegradable

Enclosure made from Gaia Biomaterial Biodolomer® — no microplastics.



Solar Powered

Organic indoor solar cell — completely battery-free and wireless.



Self-Adapting

Reduces power consumption and network load automatically. Lasts up to **50 days in the dark.**

Specifications

Mechanical

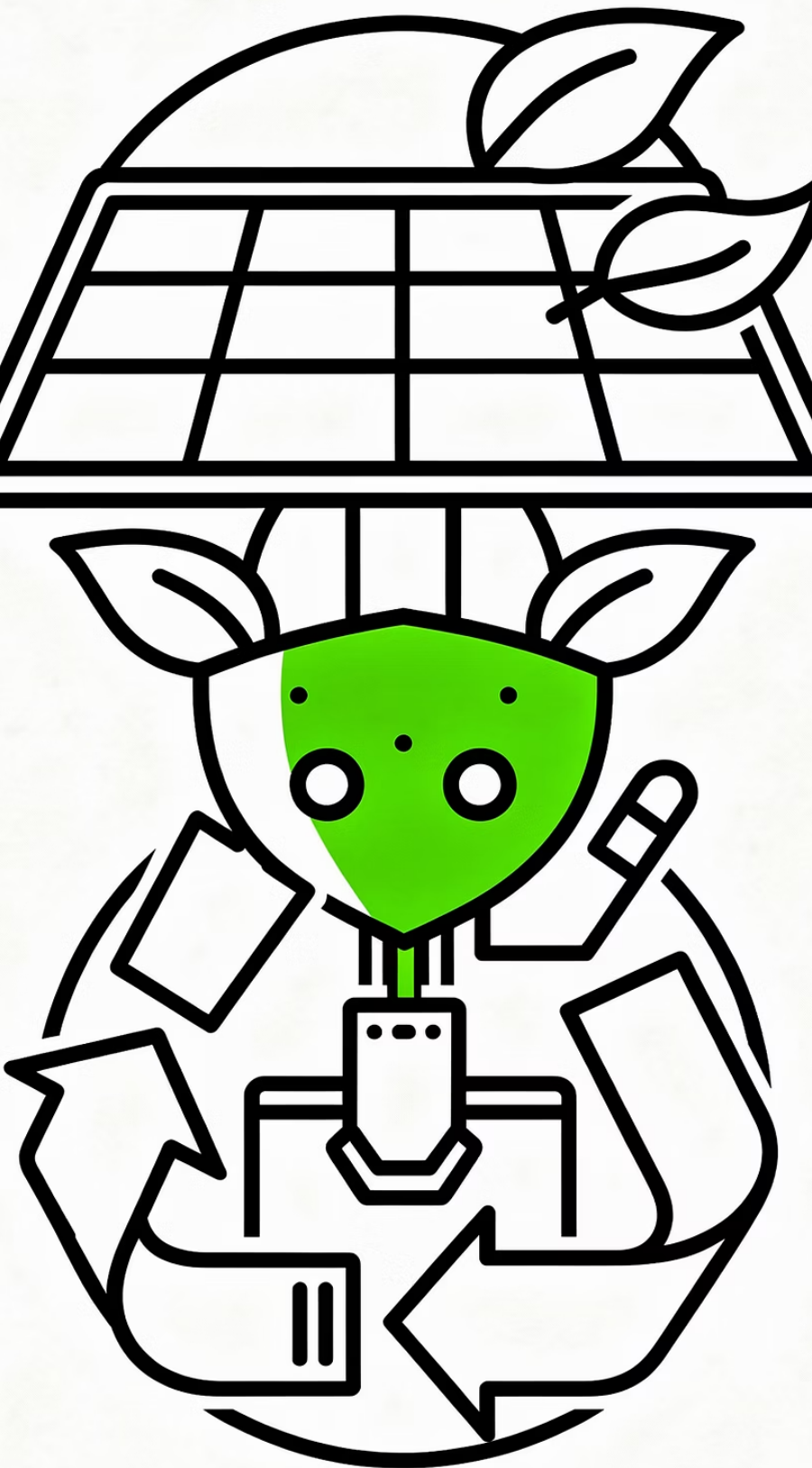
Weight	33 g
Dimensions	66.2 × 66.2 × 17.2 mm
Enclosure	Biodolomer®
IP Rating	IP20
Mounting	Screw / Adhesive tape

Sensor Accuracy

Temperature	± 0.2 °C
Humidity	± 2 % RH @ 25 °C
Light	± 10 lux ± 2% of reading

Device & Radio

Power	Lithium-ion capacitor (LIC)
Battery Life	Up to 50 days in dark
Sample Interval	10 min (default)
Wireless	LoRaWAN® 1.0.4
Security	AES-CTR + AES-CMAC



Sustainability at Its Core

Organic Solar Cell

The OPV cell from **Epishine** delivers best-in-class energy harvesting from indoor light — eliminating batteries and reducing maintenance costs.

Biodegradable Material

Made from **calcium carbonate and vegetable oils**. Produces no microplastics and is certified for both home and industrial composting.

- ❏ Removing batteries from wireless IoT devices significantly reduces environmental impact — Smart Eco leads the way with Scandinavian design and green engineering.

[Smart-Angel.co.uk](https://www.smart-angel.co.uk)

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