

PRODUCT DATASHEET

STICKER Clime

Temperature and humidity monitoring deployed in minutes — stick it up, tap it with a phone, and it reports for years on two AA batteries.

REFERENCE NUMBER HPD.260706.22-R1 DATE July 6, 2026

**±0.2 °C**

temperature accuracy

2+ yrs

battery life

3+ km

LoRaWAN range

NFC

tap-to-configure

Why integrators pick it

■ Years on two AA batteries

Runs 2+ years on two standard AA cells — alkaline or lithium. No wiring, no charging, no maintenance visits: install-and-walk-away economics that hold up at fleet scale.

■ Range that covers whole buildings

LoRaWAN reaches 3+ km line of sight and hundreds of meters through building structure — one gateway covers an entire building. A software-selectable LoRa P2P mode links directly to HARDWARIO FIBER.

■ Accurate built-in sensing

Integrated high-accuracy temperature and humidity sensor — ±0.2 °C and ±2 % RH — plus external 1-Wire probes covering -40 to +85 °C for cold rooms, pipes, and specific measurement points.

■ Tap-to-provision with NFC

Network keys, alarm thresholds, and reporting intervals are written over NFC from a phone — no cables, no special tools, and it works even before the batteries go in. Deploying 100 sensors in a day is realistic.

Where it fits

STICKER Clime is the fastest path to a production climate feed: audit-ready temperature records for pharmaceutical storage, cold rooms, and food warehouses under GDP and HACCP; temperature and humidity mapping across offices and commercial buildings to find problem zones and tune HVAC; and grain silos, greenhouses, and storage facilities where an early anomaly warning prevents spoilage and crop loss.



One radio, two paths — standard LoRaWAN through any gateway and network server (The Things Stack, ChirpStack), or a direct LoRa P2P link to HARDWARIO FIBER.

The device samples its sensors and sends uplinks on configured intervals, sleeping in between — significant changes are reported as alarm events between the regular reports. Provisioning is a tap: keys and parameters are written over NFC from a smartphone, even while the device is unpowered. Ready-made payload decoders and downlink command tooling are available for The Things Stack and ChirpStack, so readings land in ThingsBoard, a purpose-built application, or your own system without firmware work.

Technical specification

MEASUREMENT

Integrated sensor	Temperature and relative humidity (SHT43)
Temperature range	−20 to +60 °C
Temperature accuracy	±0.2 °C (0 to 65 °C)
Humidity range	0 to 100 % RH
Humidity accuracy	±2 % (10 to 90 % RH)
External sensors	1-Wire temperature probes, −40 to +85 °C

CONNECTIVITY

LoRaWAN	868 MHz (EU868) or 915 MHz (US915) — public or private networks
LoRa P2P	Proprietary 868 MHz mode, software-selectable — direct links to HARDWARIO FIBER
Configuration	NFC from a smartphone — network keys, alarm thresholds, reporting intervals; works even unpowered
Radio SoC	STM32WL (Arm Cortex-M4F) with integrated LoRa radio
Firmware	Open source, built on Zephyr OS
Antenna	Internal

POWER

Batteries	2× AA — alkaline (LR6) or lithium 1.5 V
Nominal battery capacity	3 000 mAh
Operating voltage range	1.8 to 3.6 V
Standby consumption	< 80 µA
Peak consumption	< 100 mA
Battery life	2+ years at typical reporting intervals

ENVIRONMENT & MECHANICAL

Operating temperature	−20 to +60 °C
Storage temperature	−30 to +70 °C
Ingress protection	IP20 (IP67 with enclosure)
Enclosure	ABS plastic, 91 × 36.5 × 33.3 mm
Mounting	Double-sided tape or two screws

Ordering information

STICKER Clime ships as a complete, pre-configured device — no firmware development needed. The hardware consists of the following components:

Ordering code	Description
STICKER M	Standard mainboard — STM32WL with integrated LoRa radio and sensors
STICKER NFC	NFC board
ENC-STICKER-CLIME	Enclosure with two light pipes and perforation
ENERGIZER-AA-1.5V-LITHIUM	AA lithium 1.5 V cell (2× per device)

COMPLIANCE

STICKER Clime conforms to the Radio Equipment Directive 2014/53/EU — including the EN 18031-1 cybersecurity requirements mandatory since August 2025 — and the RoHS Directive 2011/65/EU, and to the equivalent UK statutory requirements.

Declaration of Conformity: HDC.260706.22

CE
UKCA

Scope a climate-monitoring pilot

A handful of STICKER Clime units on a wall and a tap of a phone is all a pilot takes — readings reach your platform the same day. Tell us about the application — rooms, storage conditions, LoRaWAN coverage on site — and we will configure a pilot kit that matches it, including integration support for your first deployment.

- [Explore STICKER Clime in the HARDWARIO store](#)
- [Read the developer documentation](#)

ABOUT HARDWARIO

HARDWARIO a.s. designs and manufactures industrial IoT devices in Liberec, Czech Republic. Founded in 2016 and listed on the Prague Stock Exchange, the company does more than 80 % of its business through its partners.

HARDWARIO a.s.

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