

PRODUCT DATASHEET

STICKER Input

Bring wired signals into wireless telemetry — voltages, meter pulses, industrial logic, and 1-Wire probes, reported over LoRaWAN for years on two AA batteries.



REFERENCE NUMBER HPD.260706.23-R1 DATE July 6, 2026

2× 30 V

voltage channels

24 V

industrial logic input

2+ yrs

battery life

NFC

tap-to-configure

Why integrators pick it

- **Two voltage channels to 30 V**
Wirelessly measure up to 2 channels of voltage up to 30 V — battery banks, solar panels, or industrial signals — and get alerts when values drift outside safe operating ranges.
- **24 V industrial logic input**
Read 24 V industrial logic signals for machine state detection, door contacts, or alarm inputs — digitize legacy equipment without PLC changes.
- **Meter pulse capture**
Read pulse outputs from water, gas, or electricity meters via the digital input. Digitize existing utility infrastructure without replacing meters — just connect and start collecting consumption data wirelessly.
- **Up to four 1-Wire probes**
Connect external 1-Wire temperature probes for precise measurement at specific points — pipes, tanks, or surfaces — alongside the electrical inputs, covering -40 to +85 °C.

Where it fits

STICKER Input is the shortest route from a wired signal to a wireless data point: voltage levels on batteries, solar panels, and power supplies in equipment monitoring; pulse outputs from existing water, gas, and electricity meters in utility metering; and machine states, door contacts, or alarm outputs on legacy industrial equipment — captured without touching the PLC. External wiring enters through cable glands, and DIP switches select the mode of each input.



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 reports input states, pulse counts, and measurements on configured intervals, sleeping in between — state changes are reported as events between the regular reports. Provisioning is a tap: keys, thresholds, and reporting intervals 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

INPUTS & MEASUREMENT

Voltage inputs	2 channels, 0 to 30 V
Digital input	24 V industrial logic
Pulse counting	Meter pulse capture (water, gas, electricity) via the digital input
1-Wire interface	Up to 4 external temperature probes, -40 to +85 °C
Input modes	DIP-switch selectable — 1-Wire, dry contact, analog voltage

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

Two enclosure variants cover the wiring scenarios: **STICKER Input 1** brings external wiring in through a single cable gland, **STICKER Input 2** through two. Both are complete, pre-configured devices built from the following components:

Ordering code	Description
STICKER M	Standard mainboard — STM32WL with integrated LoRa radio and sensors
STICKER NFC-INPUT	NFC board with connector
ENC-STICKER-INPUT-1	Enclosure with light pipe and cable gland (Input 1)
ENC-STICKER-INPUT-2	Enclosure with light pipe and two cable glands (Input 2)
ENERGIZER-AA-1.5V-LITHIUM	AA lithium 1.5 V cell (2× per device)

COMPLIANCE

STICKER Input 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.260706.23

CE
UKCA

Scope a wired-signal pilot

A STICKER Input evaluation unit connects to your meters, probes, or machine signals and reports to your platform the same day. Tell us about the application — signal types, wiring, LoRaWAN coverage on site — and we will configure a pilot kit that matches it, including integration support for your first deployment.

- [Explore STICKER Input 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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