

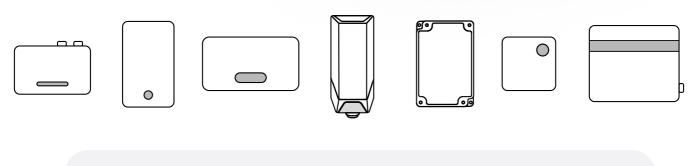


LoRaWAN Door Sensor

The next evolution in IoT

Model: MACDS02





MacSync

Modules

Gateways

Controllers

Customise



Macnman LoRaWAN Door Sensor

OVERVIEW

The Macnman MACDS02 is a LoRaWAN-based door/window contact sensor designed to detect open/close status & wirelessly transmit real-time updates to IoT platforms. It is built for low-power operation and is ideal for applications requiring long battery life and robust wireless communication.

The MACDS02 is powered by 2 x AAA batteries and supports up to **60,000+ uplink transmissions**, ensuring years of maintenance-free operation. The rugged enclosure makes it suitable for both indoor and semi-outdoor installations.

Users can monitor door status, opening duration, and cumulative event counts remotely.

The device supports configurable alarms, periodic reports, and status uplinks on door open/close events.

Each unit comes with a unique DevEUI/AppEUI/AppKey pre-programmed for fast and secure onboarding to LoRaWAN networks.

FEATURES

LoRaWAN & Class	LoRaWAN v1.0.4 & Class A device
Product Brand	Magnetic door/window contact detection
Updates	Configurable periodic uplink interval
Alerts	Open duration alert threshold
Modes	Open/Close event tracking with timestamp
Cycles	Up to 60,000+ uplinks per battery cycle Urban
Activation	ОТАА



Device Specifications

General Specifications

Product Part Number	MACDS02 / 03 / 04
Product Brand	Macnman Technologies Pvt Ltd
Interface Available	Temperature Sensor Humidity Sensor
BLE	BLE 5.3 - nRF5281 Series
LoRaWAN	STM32WL Series
LoRaWAN range	2 Km Urban 6 Km LoS
Cloud platforms	TTN Chirtstack Helium Ioriot Orbiwise Private

LoRaWAN Specifications





Battery Specifications

Power options	In-built battery
Battery life	3 years 1 uplink / 5 mins
Battery capacity	2 x AAA batteries
Battery Type	Alkaline

Physical Properties

Mounting Methods	Window Walls Door Walls
Dimensions	45 mm X 23 mm X 19 mm 35 mm X 23 mm X 19 mm
Weight	80 gms (with battery)
Shell	Waterproof IP65 weather resistant

Operating Conditions

Operating temperature	-35 C +65 C
Storage temperature	-40 C +125°C
Relative Humidity	95% (non-condensing)
Casing Built	Suitable for indoor, outdoor and harsh environments such as high UV exposure, heavy rain, dusty conditions etc



Default Parameters

Frequency plan	IN865-868
Adaptive data rate	On
Confirmed Uplinks	Off
Heartbeat Rate	10 mins

To change any parameter of MacSync you need an Macnman Maya app.