

TM-12 Product Information

Model no: TM-12N

Version: 0.1

Date: 28 Apr 2026

TM-12 User Manual:

The TM-12N / TM-12BN is a wireless transmitter that supports pad, time pad, and floor mat. It is designed to monitor the status of these devices. The following features are available:

1. Learn code transmission.

The device allows for two ways to generate learn codes:

- 1.1. Turn ON the power of TM-12N to trigger learn code transmission. The status LED stay on for about 1s and 3s for normal and long delay of alarm debounce.
- 1.2. Press the pad about 1 sec and then release it.

2. Pad/mat status change alarm/reset transmission

The device sends 3 long bursts of transmission for alarm/reset purpose:

- 1.1. After the pad is pressed and then released.
- 1.2. After the floor mat is pressed

3. Bed/Wheelchair Product type

Every transmission contains the product type of either bed or wheelchair.

4. Battery Low detection

The device enters battery low stage under the following conditions:

- 1.1. Low Cell battery voltage.
- 1.2. When the set operation days count down to zero.

After the battery low stage lasts for 7 days, the device will be locked, and all function will be disabled, even if batteries are replaced.

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Specifications:

Model No.	TM-12N
Battery Type	Lithium Manganese Dioxide /CR2477 x 2
Battery Life	Min. 1 year (standby)
Operation Frequency	433.92MHz
Modulation type	ASK
ID code combinations	0001 to 4095
Supported pad types	Bed, Chair, or Floor Mat
Nominal range with CBM	30M (open area)
To work with the type of monitors individually	NGM-21, NGM-41, PAG-31
Operation Voltage	3V
Housing	ABS(UL94-HB Flammable Grade)
Dimensions	68.2x54.6x13mm
Net weight (with batteries)	55g
Operating temp	0°C - 40°C
Approvals	FCC

Notice:

Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced RF technician for help.