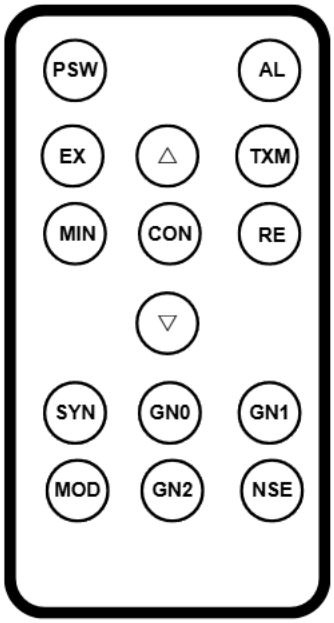
Remote Control User Manual



Important Notice

1. Do not attempt to adjust or configure the system by yourself. Unauthorized adjustments may cause malfunction or reduce detection performance.

2. If you encounter any issues during product use, please contact us first. Our technical team will provide proper guidance and troubleshooting instructions.

3. Please follow our instructions before using the remote controller for any settings. This ensures safe operation and prevents incorrect parameter changes.

Button Definitions:

PSW: Enter system

EX： Exit

MIN: Comparison value adjustment — three channels can be adjusted individually or all at once.

SYN: Phase synchronization adjustment.

MOD: Parameter adjustment menu.

△: Increase value (long press for continuous increase).

CON: Confirm / OK key.

▽: Decrease value (long press for continuous decrease).

GN0: Gear (range) adjustment — per-channel or all channels.

GN2: Minimum threshold adjustment.

AL: Alarm length (duration) setting.

TxM: Transmit mode setting.

RE: Window delay setting.

GN1: Gain adjustment — per-channel or all channels.

NSE: View noise values for each channel.

How to Use

1. Entering the system (password)

System password: **P168**. Press PSW — the display will show P167. Use △ to increase to P168, then press CON to confirm. The display will flash (-) to indicate you have entered the system.

Only after entering the system may you adjust parameters. After changing any parameter, press CON to save. To cancel current changes, press PSW or EX.

2. MIN — Comparison value adjustment

MIN adjusts the comparison value between signal and non-signal. Three channels can be adjusted individually or all at once.

1. Press MIN. The unit will prompt for channel selection (default: CH1).
2. Use △/▽ to choose ALL, CH1, CH2 or CH3, then press CON.
3. The display shows e.g. H 40 (default). Use △/▽ to adjust and press CON to save.

Raising this value can reduce false alarms but may reduce detection distance depending on environment.

3. SYN — Phase synchronization adjustment

SYN adjusts transmitted phase between devices to avoid mutual interference.

1. Press SYN. Use △/▽ to change the phase synchronization value.
2. Watch the signal indicator LEDs on the mainboard — if they do not light strongly, synchronization is close.
3. Press CON to automatically switch to channel 1 noise view. Use △/▽ and CON to check other channels. When phase sync is good, channel noise values are similar and not high.

4. MOD — Parameter menu

MOD contains several sub-items:

- **E1 — Restore defaults**: Press MOD, use △ to select E1, then press CON to restore all parameters to default and save automatically.
- **E2 — Alarm type**: Two modes: bp0 and bp1. Choose according to use.
- **E3 — Transmit pulse width**: Four modes:
    - nL 0 — 2.5 ms
    - nL 1 — 3.5 ms (default, commonly used domestically)
    - nL 2 — 4.5 ms
    - nL 3 — 6.6 ms (often used by foreign equipment)

If phase sync adjustment cannot resolve interference, change the transmit pulse width.

- **E4 — Alarm output type**: US0 = Buzzer, US1 = Speaker.
- **E5 — Speaker voice output**: SP0–SP5 (6 voice options). When switching, CH1 previews the sound.

5. GN0 — Gear / Range setting

1. Press GN0. Select channel (ALL, CH1, CH2, CH3) with △/▽, then press CON.

2. Display shows e.g. n0-1 (medium).

Gear definitions: n0-0 = Low, n0-1 = Medium, n0-2 = High. Higher gear = longer detection distance but potentially higher noise (adjust per environment).

6. GN1 — Gain adjustment

GN1 adjusts gain (10 levels: n1-0 to n1-9). Select channel or ALL, press CON, then adjust. Higher gain increases detection distance but may raise noise.

7. GN2 — Minimum threshold

GN2 sets the minimum threshold. Only signal values above this threshold are considered tag signals. Press GN2, adjust (e.g. n 90) with △/▽, then press CON to save. Raising this value can reduce false alarms at the expense of detection distance.

8. AL — Alarm length

AL sets the buzzer duration after alarm triggers. Use △/▽ to set and CON to save.

9. TxM — Transmit mode

Press TxM, display shows P 0. Use △/▽ and press CON to save. Modes:

- P 0: Three-channel transceive (all channels transmit & receive).
- P 1: Two-side transmit off — door (middle) receive: CH1 in center receive, CH2 & CH3 transmit on sides.
- P 2: Two-side transmit off — door (middle) transmit: CH1 in center transmit, CH2 & CH3 receive on sides.
- P 3: CH2 side off; CH2 transmit only. CH1 center transceive; CH3 transceive.
- P 4: CH3 side off; CH3 transmit only. CH1 center transceive; CH2 transceive.

10. RE — Window delay

RE sets the window delay to prevent reception of transmit tail echoes. Press RE, adjust value (display e.g. C 4) with △/▽, then press CON. Recommended range: **4–6**.

11. NSE — View channel noise

Press NSE to view noise. Display shows d 1 (view CH1). Use △/▽ to change channel, then press CON to enter view mode.

In view mode the display shows values like (- 0) (excellent environment). While in view mode, tag passing will not trigger an alarm but the signal value will increase. From view mode you can switch channels with △/▽ and press CON to view others.

Code definitions:

d 0 : empty

d 1 : CH1 current signal value

d 2 : CH2 current signal value

d 3 +: CH3 current signal value

d 4 : CH1 ambient noise value

d 5 : CH2 ambient noise value

d 6 : CH3 ambient noise value

Quick Reference — Default Parameter Table

Parameter	Default Value	Notes
MIN (comparison)	H 40	Default comparison threshold
+-SYN (phase sync)	b 0	Default sync value
MOD (params)	E2: bp0, E3: nL 1	Alarm type & pulse width default
GN0 (gear)	n0-1	Medium detection range
GN2 (min threshold)	n 90	Minimum tag recognition threshold
AL (alarm length)	AL10	Buzzer duration
TxM (transmit mode)	P 0	Three-channel transceive
RE (window delay)	C4	Recommended 4–6
GN1 (gain)	n1-9	Maximum gain by default