

WCP-11-TEK User Manual and Specification

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1. Introduction

The WCP-11C-TEK is a 433MHz wireless call point transmitter supporting the PII System Receiver.



- 433MHz long range transmission
- Buttons:
 - Call (red circle with white cross)
 - Staff Emergency (Brown)
 - Round (Purple)
 - Check-in (green)
 - Reset (dark grey)
- Indication LED
- RJ10 connection to handset
- Low battery voltage indication
- Optional tracking function
- Site code setting

2. System Overview

Functions

There are five buttons and a magnetic sensor on the call box. An external handset with a call button can be connected to the call box. The five buttons on the call box are:

1. Staff Emergency
2. Call
3. Round
4. Check-in
5. Reset

There are two Reset functions:

1. Normal reset (0x0C) activated by press the Reset button
2. Handset Removal Reset (0x5C) activated by pressing the Reset button for 5s

The two functions activated by placing a magnet on the Reset button are:

1. Reset (place a magnet on the Reset button and remove from the Reset button)
2. Survey (placing a magnet on the Reset button and then press the Call button)

The other functions not activated by buttons are:

1. Handset Removal
2. Handset Plug-in
3. Tracking (enable or disable by flash programming or optional EEPROM)
4. Low Battery Voltage

Priority

While a function is being operated, the system ignores the lower priority conditions. For example, during a Staff Emergency Call is being operated, pressing the Call or the Round button does not have any effect. The Reset is a special function. Pressing the Reset button immediately overwrites any function being operated (except Handset Removal and Handset Plug-in functions). However, while the Reset function is being operated, it will be over-taken by any key pressing actions but not the Handset Removal, Handset Plug-in, Low Battery Voltage, or the Track code. The priority is listed below with the Staff Emergency Call as the highest priority function:

1. Staff Emergency Call
2. Call
3. Handset Removal
4. Handset Plug-in
5. Check-in
6. Rounding and Survey (equal priority)
7. Low Battery Voltage / Track Code

Condition	Functions	Signal	LED & Buzzer
Press Call Button	Tx Call Signal with LED flashing	0x06*	Beep x 1 ON for 5s -> Flash every 3s -> until reset
Press Call Button on handset	Tx Call Signal with LED flashing	0x06*	Beep x 1 ON for 5s -> Flash every 3s -> until reset
Press Reset Button	Tx Reset Signal with LED function	0x0C	Beep x 1 LED flashes 3 times (0.5s ON -> 0.5s OFF)
Press Staff Emergency Button	Tx Emergency Signal with LED function	0x07	Beep x 2 LED flash (0.25s ON -> 0.25s OFF) -> until reset
Press Check-in Button	Tx Checking Signal	0x01	Beep x 1 LED flashes 3 times (0.5s ON -> 0.5s OFF)
Press Rounding Button	Tx Rounding Signal	0x03	Beep x 1 LED flashes 3 times (0.5s ON -> 0.5s OFF)
Survey function	Tx Call Signal with 3dB weaker with LED function	0x06*	Beep x 1 LED ON -> until Tx finished
Tracking Code	Tx Tracking Code IF not in Call or Emergency State.	0x2C	N/A
Handset Removal	Tx Handset Removal Signal	0x04	Beep x 1 ON for 5s -> Flash every 3s
Handset Removal Reset	Tx Handset Removal Signal Reset	0x5C	Beep x 1 LED Flash 3 times (0.5s ON -> 0.5s OFF)
Handset Plugin	Tx Handset Plugin Signal	0x1C	Beep x 1 LED Flash 3 times (0.5s ON -> 0.5s OFF)
Low Battery	Tx Low battery signal	0x09	LED 0.1s ON -> 5s OFF until battery is replaced

Table 2-1. Functions under different conditions

Note: The time durations stated above are approximate.

* Call button signal of 0x06 is configurable

3. Operation

After installing two new CR2477 batteries, press the RESET button for 5s to make the device into normal operation mode (the LED should be ON for 1s). The device can be operated according to table 2-1 by pressing the corresponding buttons.

Note:

The buttons have priority, for example, if the EMERGENCY button was pressed, it will wait for the RESET button to be pressed. Pressing other buttons should not have any effects.

After pressed and released the RESET button, pressing any buttons should take effect immediately.

4. RF Exposure

This equipment complies with the FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

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 radio/ TV technician for help.