

〔Before installation and application of the product, please read the Instruction Manual for Installation and Application〕

Instruction Manual for Installation and Application of TCBM5023 Hand Held Programmer

(Ver 2.0)

I General

TCBM5023 Hand Held Programmer (the programmer) can program and read address and set parameter of addressable detectors and modules. Easy to carry and operate.

II Features

1. Hand held unit, small in size.
2. The retractable contact guide pin at the side of the programmer connects loop devices to program address and so on.
3. LCD display.
4. Low battery indication.
5. Power management function.

III Technical Specifications

1. Power: 2 pieces of 1.5V/5 battery
2. Operating current: $\leq 40\text{mA}$
3. Standby current: $\leq 2\text{mA}$ (backlight is 4mA)
4. Operating environment

Temperature: $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$

Relative Humidity: $\leq 95\%$, non-condensing

5. Dimension

Diameter: $155\text{mm} \times 60\text{mm} \times 29\text{mm}$

IV Structure

1. Appearance of the programmer is shown in Fig. 1.

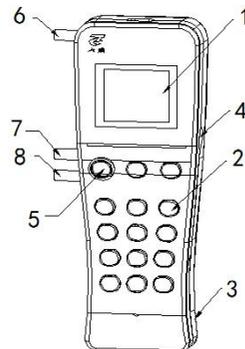


Fig. 1

2. Name and function are as follows:

1: LCD

2: Keypad

3: Battery Container Cover

4: Loop Jack

5: Power Switch

6: Retractable single contact guide pin

7 and 8: Retractable double contact guide pin

LCD: Displaying all detector information and information input by operator

Keypad: Used to input information, keypress functions are as follows

Numerical key 0-9 used to input numbers.

Exit/Backlight used to close backlight and exit menu.

Clear/Scroll used to clear unnecessary address or modify address; scroll is used in main menu.

Battery Container Cover: Putting the battery inside.

Loop Jack: Connecting the programmer with addressable detectors or modules.

Power Switch: Turning on and off the programmer.

V Power Management

1. When the battery is under-voltage, the power is only a little.
2. When the programmer is no use for about 3 minutes, the system will automatically turn off the backlight, and press any key to relight the backlight.
3. When the programmer is no use for about 10 minutes, the system will automatically turn off the power, and press the power switch to power it up again.

VI Switch of Programming Mode

1. On main menu, press numerical key 2 to enter *Mode Setup*, choose product (default is TC5000), there are (1) TC5000 (2) TC3000 (3) TCD-HZ800 (4)TC-C-2300 (5) Increase (6) Normal (7) Decrease on the interface. Press corresponding number key to choose corresponding products (default is TC5000), and number key 5, 6 and 7 indicate to choose address mode, increase mode, normal mode and decrease mode (default is normal mode).
2. The programmer is compatible with TC5000 products, not compatible with TC3000, TCD-HZ800 and TC-C-2300.

VII Application to Battery

1. Installation of Battery

Open the battery container cover according to direction on it, buckle the battery correctly and put it into the container, then close the back cover.

2. Replacement of Battery

If the LCD screen shows less power, the battery is under-voltage and needs to be replaced.

Note: Before replacing the battery, turn off the programmer.

VIII Operation

1. Program and read address

1.1 Press the power switch, and then press numerical key 1 to program and read the address.

1.2 The retractable contact jack connects loop's L1 and L2 terminals. Detectors use guide pin 6 and 8. Modules use guide pin 7 and 8.

1.3 Press numerical key to input the address number, such as 100, and the LCD screen will display 100.

1.4 Press *Program*, waiting for about 2 seconds, the indicator flashes twice, the LCD screen will show an "S", the programming is successful, and an "F", means a failure, and program the address again.

2. Read address

Note: Address mode should be correct, or the programming is a failure.

3. Set parameter

Modules and other devices can set parameter by using the programmer to fit to the field situation.

1.1 On the main menu, press numerical key 3 to enter the interface of programming and reading module configuration.

1.2 (1)SR-Input module (2) SC-Output module (3) RC-I/O module (4) SG-Sounder strobe.

1.3 Press corresponding 1-4 numerical key to modify module corresponding configuration.

1.4 Press 1 to choose input module. It will show *cable checking*, (5) *open*, (6) *closed*, and then press numerical key 5 or 6, (5) indicates working mode is normally open cable checking, and (6) indicates normally closed cable checking.

Press 2 to choose output module. It will show *detecting* (5) *yes*, (6) *no*; *feedback* (7) *self*, (8) *peripheral device*, and then press numerical key 5 or 6, (5) indicates working mode is line fault detecting, (6) indicates line fault no detecting, (7) indicates working mode is self-feedback and (8) indicates peripheral feedback.

Press 3 to choose I/O module. It will show *detecting* (5) *yes*, (6) *no*; *pulse* (7) *yes*, (8) *no*, and then press numerical key 5 or 6, (5) indicates working mode is line fault detecting, (6) indicates line fault

no detecting, (7) indicates working mode is pulse startup, and after it is activated, the module will stop startup after 3s (8) indicates the module is activated normally, and keeps startup.

Press 4 to choose sounder strobe. It will show *feedback (7) self, (8) peripheral*, and then press numerical key 7 or 8, (7) indicates working mode is self-feedback and (8) indicates peripheral feedback.

1.5 Press *Read* to program or read module configuration.

Note: Specification of interfaces on the LCD screen.

| | |
|------------|---------------------------------------|
| R&P add. | Read and program address |
| R&P MC | Read and program module configuration |
| Program: F | Program: Failure |
| I | Increase |
| N | Normal |
| D | Decrease |
| CC | Cable checking |
| O | Open |
| C | Closed |
| Det. | Detecting |
| Y | Yes |
| N | No |
| FB | Feedback |
| S | Self |
| PD | Peripheral device |
| F | Failure |
| S | Success |