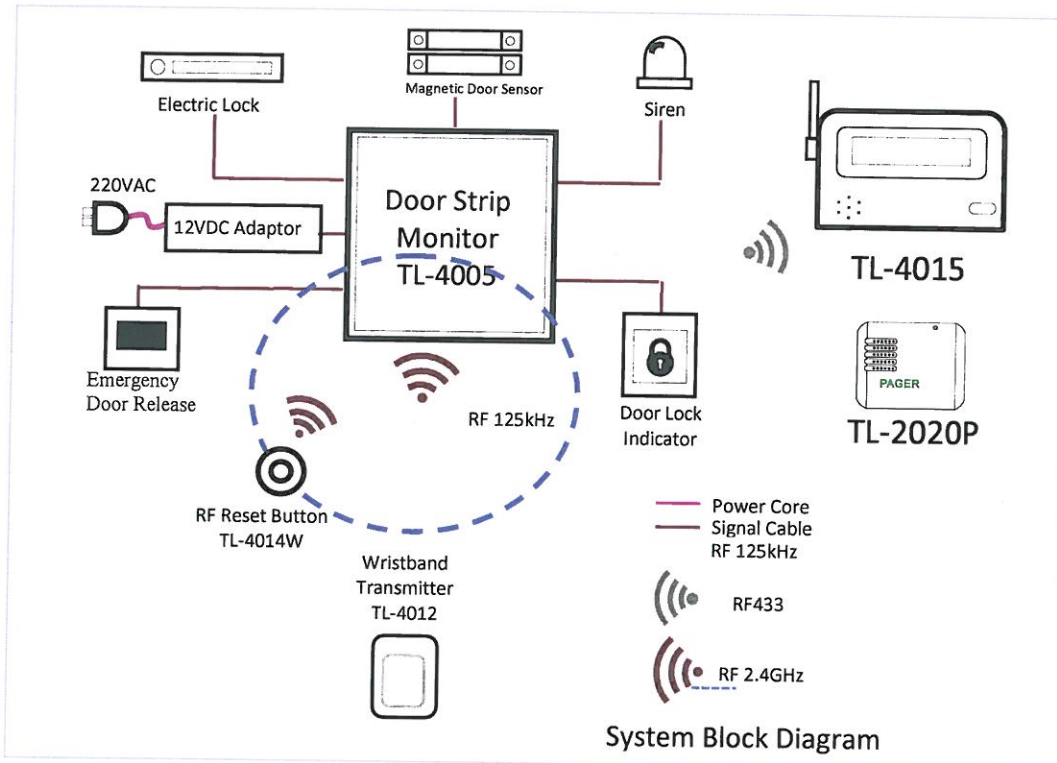


Door Alarm System:

Date: 9/4/2018

1. Structure



Devices:

1. Main Device – Single Door Strip Monitor(Code: TL-4005)
2. Resident Wristband Transmitter(Code: TL-4012)
3. Wireless Reset Button(Code: TL-4014W)
4. Pager TL-4012
5. Central Monitor Unit TL-4015

Optional Devices:

1. Power Supply, 12V DC, 1A
2. Magnetic Door Sensor
3. Electric Lock
4. Siren
5. Emergency Door Release(Glass Break button)
6. Door Lock Indicator

Operation:

When door open(with magnetic door sensor)

- a. Count when door is detected as open(could be set as 5seconds~75seconds), TL-4005 alarm
- b. Can be reset by TL-4014W or tamper proof reset option
- c. After reset, TL-4005 will pause function
- d. Once door closed, TL-4005 will restart

When TL-4012 get close to TL-4005(with magnetic door sensor)

- a. TL-4005 will awake TL-4012 by sending low frequency signal, which cover 1-8m area
 - *Please do not put TL-4012 too close to the TL-4005 for testing
- b. TL-4012 send out its ID to TL-4005
- c. TL-4005 will try to lock the door and react in 3 ways:
 - i. if it failed to lock the door, it will alarm immediately
 - ii. if the door is successfully be locked, and TL-4012 is detected leave the range, the door will automatically unlock after 3 seconds
 - iii. if the door is successfully be locked, and TL-4012 is detected stay in the range, after 3 seconds, TL-4005 will alarm
- d. The alarm could be reset by using TL-4014W, TL-4005 will enter reset delay period for 0sec~75sec.

When TL-4012 get close to TL-4005(without magnetic door sensor)

- a. TL-4005 will awake TL-4012 by sending low frequency signal, which cover 1-8m area
- b. TL-4012 send out its ID to TL-4005
- c. If TL-4012 is being detected and have not leave within 3seconds, TL-4005 will alarm
- d. The alarm could be reset by using TL-4014W, TL-4005 will pause function for 3mins

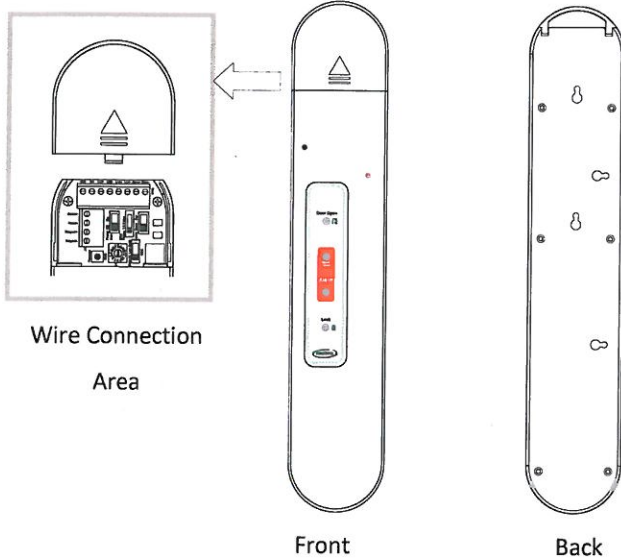
Temporarily pause TL-4005

- a. Press and hold TL-4014W for 5seconds, system will pause for 1 mins
- b. Press TL-4014W once again, system will return to normal

2. Introduction of Devices

2.1. TL-4005

Outlook



2.2 Specification

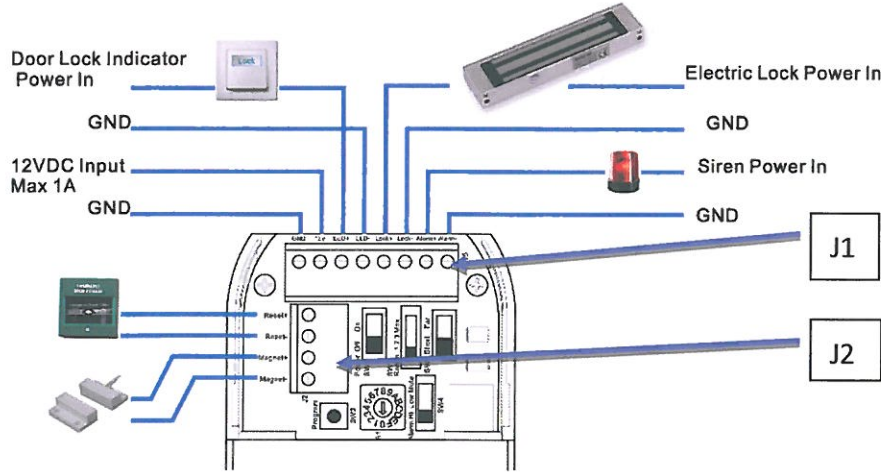
Power Output: 12V DC, 1A Max

Current: 300ma

Relay Contact Rating: (Include Electric Lock/Siren/Door Lock Indicator) Switching voltage 12VDC/24VDC,
Switching current 500ma Max

Size: 360mm(L) x 68mm(W) x 32mm(D)

2.3 Connection



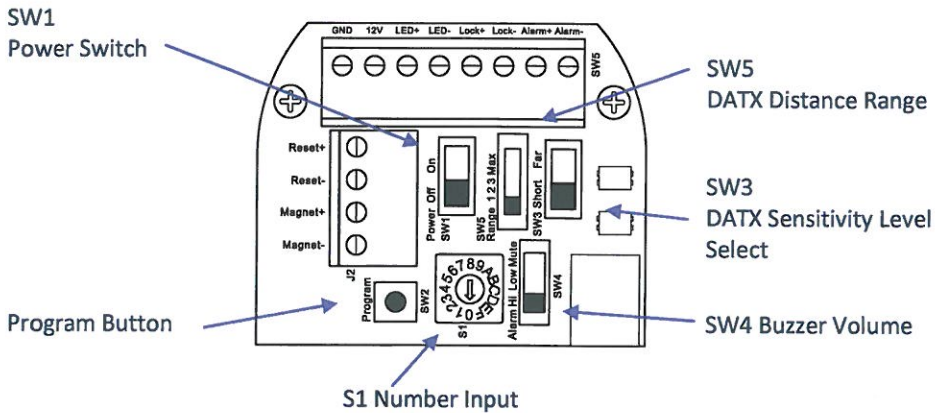
J1

Terminal	Description
1	Ground Power input GND
2	12V DC Power input 12V DC
3	LED + Door Lock Indicator, door lock status shown when short circuit
4	LED - Door Lock Indicator
5	Lock + Electric lock power out, door locked when short circuit
6	Lock - Electric lock power out
7	Alarm + Alarm output +, alarm when short circuit
8	Alarm - Alarm output -

J2

Terminal	Description
1	Reset + Connect to fire alarm switch
2	Reset - Connect to fire alarm switch
3	Magnet + Magnetic door signal in
4	Magnet - Magnetic door signal in

2.4 System Setup



1. SW1 Power Switch

2. SW3 & SW5 – Setup the sensing range

SW3 adjust the distance, long distance = within 8m; short distance = within 4m

SW5 fine tuning the distance, 1 is shortest, 4 is longest

3. SW4 adjust the volume

4. Other parameter setting:

a. S1 choose setting(refer to the table listed in below)

b. Press(Program), “Bi” sounds and enter setting mode, Green LED(Door Open) & Red LED(Alarm) on

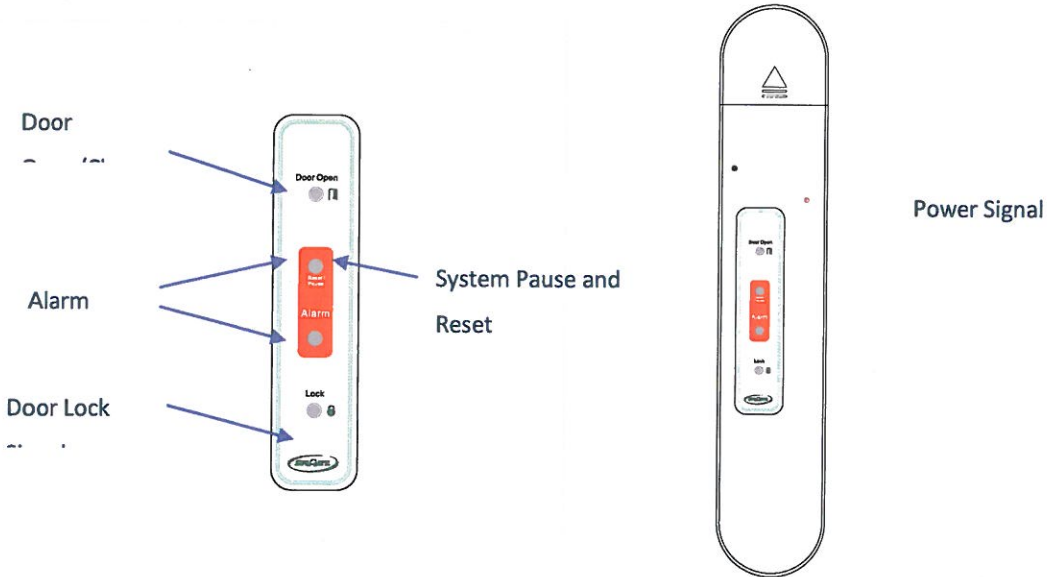
c. S1 enter parameter

d. Press program button, parameter entered

Parameter List (Apart from 1-9, A=10, B=11, C=12, D=13,E=14,F=15)

Setting	Setting Code	Description	Parameter(N)
1 Zone No. (01-99)	0(For digit in tens)	Zone no. has to be same as the TL-4015's for communication	0-9
	1(For digit in ones)		0-9
2 Door No.	2	Door ID for showing in the TL-4015	0-15
3 Door Lock Time Out	4	After the time will release the door and alarm 5sec.~75sec(5s x N)	1-15
		No time limit for the lock door	0
4 Reset Delay	5	After using reset button or reset key to cancel the alarm, the system will be pause for a preset period, no alarm will be triggered during the period Time is 0sec.~75sec(5s x N)	0-15
5 Door Open Alarm Delay	6	Turn off the door detection	0
		When door magnetic detector check the door is open, alarm will be triggered after the delay time Time is 5sec.~75sec(5s x N)	1-15
6 Alarm Relay	7	Output Keep Short for alarming	0
		Impulse output(400ms On/400ms Off)	1
7 Resume original setting	8	Zone no. :87 Door no. :01 Door Lock Time Out: 07 (35sec) Reset delay: 0 sec Door open alarm delay: Turn off Alarm relay: normal close alarm	0

2.5 Signal



	Items	Description
1	Door Open/Close	Door close will light up Green LED Door open will flash Green LED It will not light when door magnetic detection function is closed
2	Alarm	Red LED flash when alarm(TL-4012 get close to the device or door open)
3	Reset/Pause	Yellow LED flash indicates that the system is on reset delay or pause, system is temporarily not working
4	Door Lock	Green LED light up indicates the door is locking
5	Program Mode	Door Open/Close LED and Alarm LED light up

3. TL-4012

3.1 Introduction of Transmitter(TL-4012)

Resident Wristband Transmitter will be waked by TL-4005 and start to send signal to TL-4005.

3.2 Specification

Batter: CR2450

Frequency: 2.4Ghz



3.3 Instruction

LED will flash when it get closed to TL-4005

3.4 Check On / Off Status

Place magnetic on right side

Status	LED
On	Flashing
Off	Keep light up

3.5 Turn On

Put the magnetic field on the right for 5 seconds, LED Off and turns on the power.

3.6 Turn Off

Step 1: Put the magnetic field on the right side for 5 seconds, LED stops flashing and keep light up;

Step 2: Remove the magnetic until LED light off;

Step 3: Put the magnetic field on the right side again until LED light up;

Step 4: Remove the magnetic and TL-4012 will turn off the power.

4. TL-4014W

4.1 Introduction of Reset Button(TL-4014W)

TL-4014W will reset the alarm of TL-4005. If the button is press during door open status(with door detector), it can pause the TL-4005 until the door is closed. If the button is pressed for 3 seconds while door detection is not applied, TL-4005 will pause for 3 mins.

Low battery signal will be sent to TL-4005.

4.2 Specification

Battery: CR2450

Frequency: 2.4Ghz

5. Message Displayed on WC-TL-4015

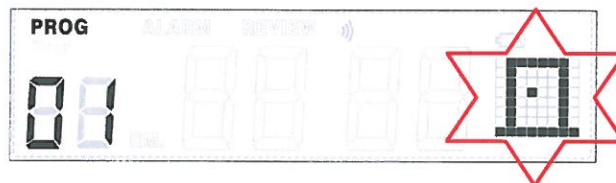
5.1 Single Door Strip Monitor Setting Procedure

a)Turn on the TL-4015

b)Press and hold Prog. Button for 2 seconds, TL-4015 will enter program mode, "PROG" will light on the left hand corner



c)Press Prog. Button one more time, TL-4015 will enter Single Door Strip Monitor setting mode, Single Door Strip Monitor icon will be shown

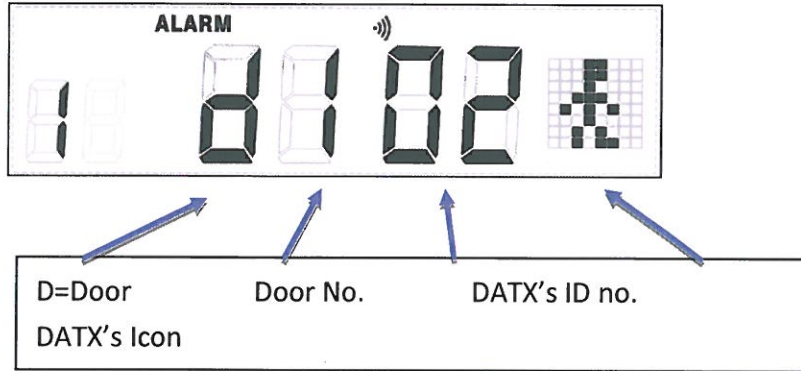


d)Press up/down button enter the door no., it has to be the same as the number entered in TL-4005

e)Press Quit to finish the setting

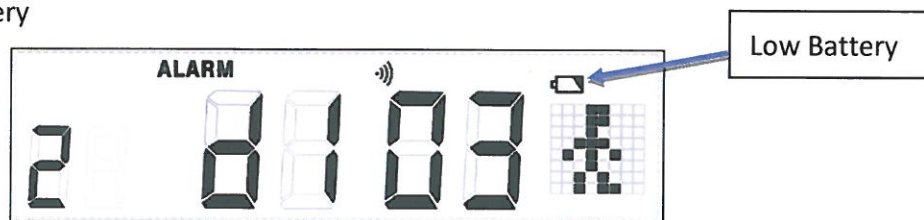
5.2 Message shown

1. TL-4012 alarm

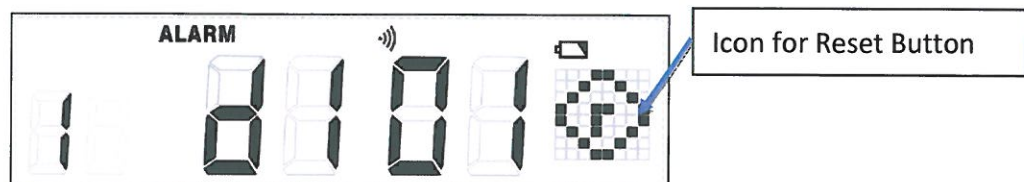


*Door no. from 10-15, will be shown as o, b, c, E and F

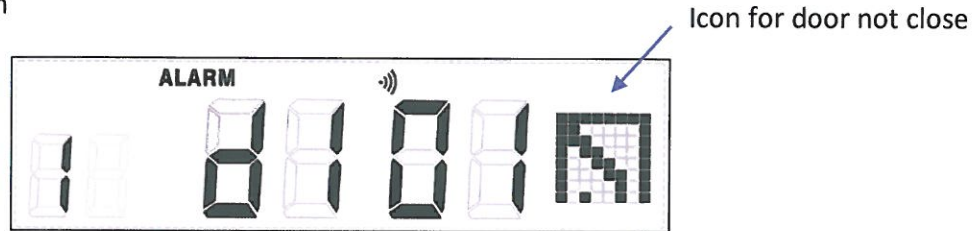
2. TL-4012 in low battery



3. Reset button in low batter



4. Door not close alarm



Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's 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.

~ end ~