IOT SEAL (DOOR-WINDOW TELE-MONITOR ALARM)

USER MAUAL

（CS-iDLM-01-SS）

（REV:A）

Xi'an Chinastar M&C Limited

REVISION RECORD

DATE	VERSION	CONTENTS	REVISER
2020/03/05	A	FIRST RELEASE	

	COMPILED BY	AUDITED BY	STANDARDIZED BY	APPROVED BY
SIGNATURE				
DATE				

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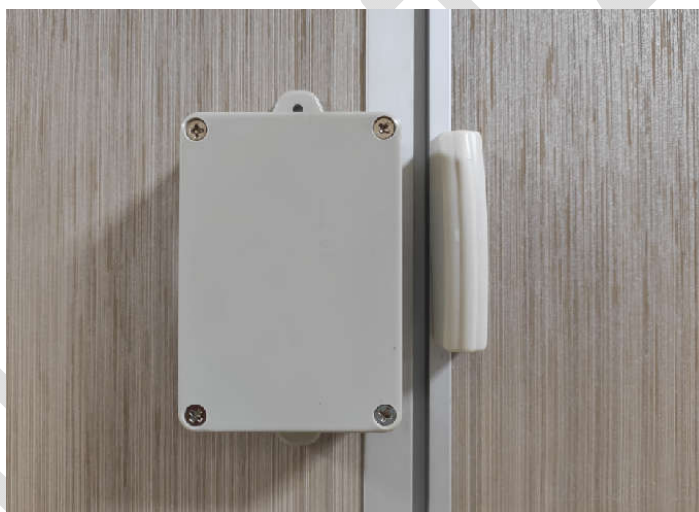# CS-iDLM-01 IOT SEAL (DOOR-WINDOW TELE-MONITOR ALARM)MANUAL

1　OUTLINE

1.1　PRODUCT

The IOT SEAL (DOOR-WINDOW TELE-MONITOR ALARM) respectively comprised of emitter and trigger can be installed on the door or window. When opening or closing the door or window it will automatically trigger the magnetic sensor in the emitter to send data wirelessly via NB-IOT or LoRaWAN to server or cloud platform.

Powered by the battery the IOT SEAL is easy-to-install, long battery life, high detection accuracy and good reliability.

The IOT SEAL　can be applied for home quarantine, epidemic control and valuables management etc.

PICTURE 1 IOT SEAL

2　SPECIFICATION

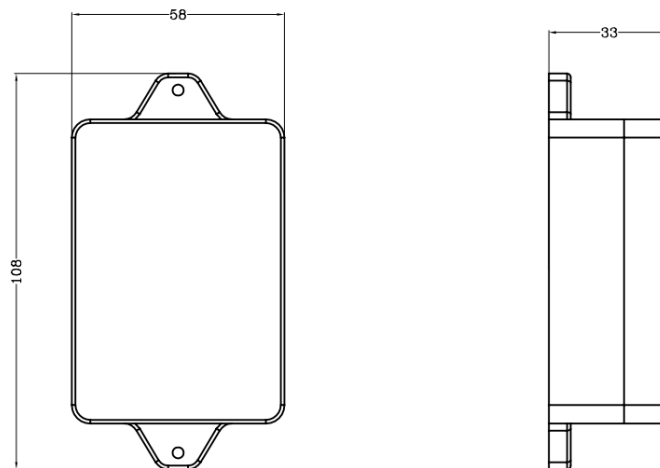### 2.1　Technical Data

Technical data is indicated in the TABLE 1 below

TABLE 1 Technical Data

Name	Technical Data	Remark
Working Frequency Band	B1/B3/B5/B8/B20	NB-IoT
	433MHz/470MHz/868MHz/915MHz	LoRaWAN
Antenna Interface	FPC Antenna	LoRaWAN/ NB-IoT

Working Voltage	Powered by Li-ion battery ER26500M（3.6V）	
Battery Life	2-3 Years	
Maximum Working Current	＜200mA	NB-IoT
	＜120mA	LoRaWAN
Standby Current	＜20.0uA	
Trigger Distance of Magnetic Steel	≥2cm	
IP Grade	IP65	
Shell Material	Flame-retardant ABS	
Working Temperature	(-25～+85)℃	NB-IOT（Consumer SIM card）
Storage Temperature	(-40～+85)℃	

2.2 Dimension

For dimensions please refer to the DIAGRAM 2 below

Emitter Structure and Dimensions

Trigger Structure and Dimensions

DIAGRAM 2 DIMENSION

3　OPERATION

3.1　SIM Card

SIM card can be installed by the user and Pre-installed SIM card is optional.

Note: It takes to open the shell to install SIM card. Tighten the screw up to ensure its performance.

3.2　Battery

Battery Model：ER26500M

Steps:

a）Open the front shell;

b）Press the toggle or connect the battery to the socket;

c）Tighten the screw up when the front shell is placed back on the emitter.

3.3　NETWORK ACCESS

3.3.1　Network Access via NB

The emitter is printed with an IMEI on its shell. The IMEI can be applied when the product is connected to the platform. The product supports TCP,UDP and COAP protocol and is compatible with CHINA TELECOM IOT platform, CODEC is available to interface.

3.3.2　Network Access via LoRaWAN

LORAWAN supports OTAA and ABP. Network access parameters can be factory defaulted. The user can provide the parameters to the supplier who will write the parameters into the product. Alternatively the user can choose to configure the parameters themselves.

Configuration description is available for user to configure the network access.

DEVEUI is printed on the shell of the product which can be applied for network access.

3.4　COMMUNICATION PROTOCAL

Communication protocol is available from the supplier.

4　INSTALLATION

Installation A: As showed in the DIAGRAM 3 below, fix the emitter to the door or window with 2 pcs of ST2.9*13 self-tapping screw; Stick the trigger to the doorframe or window frame (there is double-sided adhesive on the back of the trigger, peel the isolation layer of the adhesive off) . The distance between the emitter and trigger is less than 2cm.
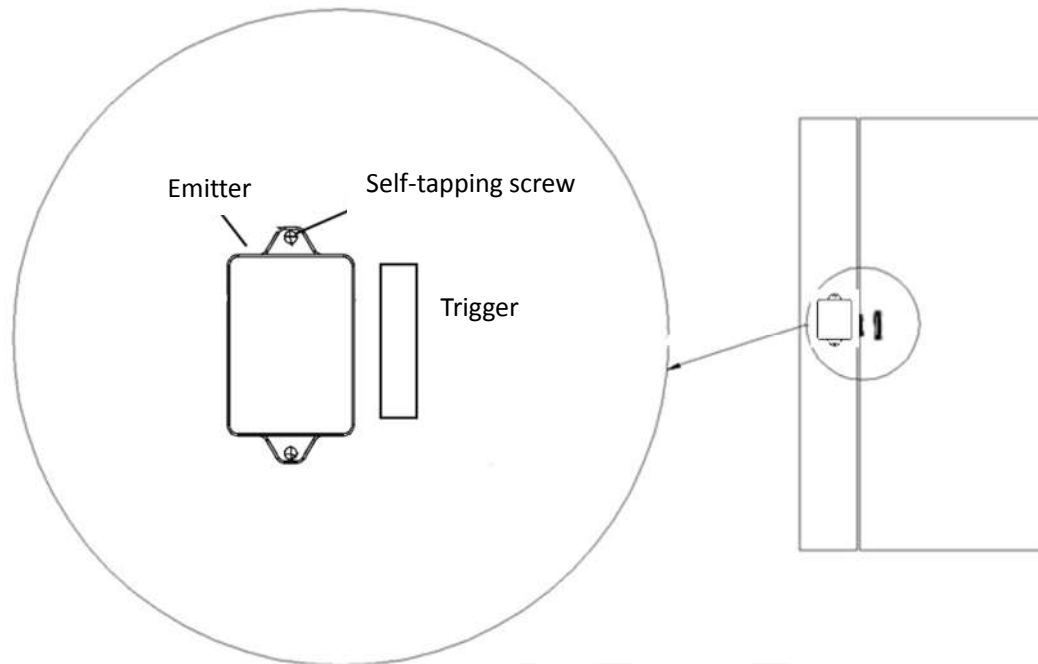
DIAGRAM 3 INSTALLATION

Installation B: Stick the emitter and trigger respectively on the doorframe or window frame, the distance between the emitter and trigger is less than 2cm.

5 ACCESSORY

a) Adaptor for converting USB to UART-TTL. The adaptor can be used for user to configure the product.

b) Battery: Model ER26500M. A battery is included in the whole product package. For more batteries please indicate in the PO.

6 OTHERS

6.1 FAILURE

a) Check node modules to ensure its registration with the server;

b) Check the battery and replace with new one if the battery is drained or too low;

c) For others please contact the supplier.

6.2 MAINTANCE

Check regularly the product to ensure it is well fixed to avoid anything unexpected such as falling.

6.3 DATA REPORT

In event of frequent opening and closing, the product may miss some data though it can accurately report the initial data and last data.

7   TERMS

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