Installation Manual

Time & Attendance and Access Control Terminal

KDH-TA500C-IP-U/M/D, KDH-TA500CFP-IP-U/M/D

KaDe

VERSION 3.0 15-03-2021

AAT SYSTEMY BEZPIECZEŃSTWA Sp. z o.o.
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AAT Systemy Bezpieczeństwa sp. z o.o. hereby declares that the type of radio equipment - Integrated controller for Time & Attendance systems and Access Control systems, complies with **Directive 2014/53 / EU of the European Parliament and of the Council of April 16, 2014** - known as the RED Directive. The full text of the EU declaration of conformity is available on the following website: www.aat.pl

DIRECTIVE 2012/19/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE) (OJ L 197, 24.7.2012, p. 38–71, with changes)

DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (OJ L 174, 1.7.2011, p. 88–110, with changes)

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WARNING!
THE KNOWLEDGE OF THIS MANUAL IS AN INDESPENSIBLE CONDITION OF A PROPER DEVICE OPERATION. YOU ARE KINDLY REQUSTED TO FAMILIRIZE YOURSELF WITH THE MANUAL PRIOR TO INSTALLATION AND FURTHER DEVICE OPERATION.

WARNING!
USER IS NOT ALLOWED TO DISASSEMBLE THE CASING AS THERE ARE NO USER -SERVICEABLE PARTS INSIDE THIS UNIT. ONLY AUTHORIZED SERVICE PERSONNEL MAY OPEN THE UNIT INSTALLATION AND SERVICING SHOULD ONLY BE DONE BY QUALIFIED SERVICE PERSONNEL AND SHOULD CONFORM TO ALL LOCAL REGULATIONS

1. Prior to undertaking any action please consult the following manual and read all the safety and operating instructions before starting the device.

2. Please keep this manual for the lifespan of the device in case referring to the contents of this manual is necessary;

3. All the safety precautions referred to in this manual should be strictly followed, as they have a direct influence on user's safety and durability and reliability of the device;

4. All actions conducted by the servicemen and users must be accomplished in accordance with the user's manual;

5. The device should be disconnected from power sources during maintenance procedures;

6. Usage of additional devices and components neither provided nor recommended by the producer is forbidden;

7. You are not allowed to use the device in high humidity environment (i.e. close to swimming pools, bath tubs, damp basements);

8. Mounting the device in places where proper ventilation cannot be provided (e.g. closed lockers etc.) is not recommended since it may lead to heat build-up and damaging the device itself as a consequence;

9. Mounting the device on unstable surface or using not recommended mounts is forbidden. Improperly mounted device may cause a fatal accident or may be seriously damaged itself. The device must be mounted by qualified personnel with proper authorization, in accordance with this user's manual;

10. Device should be supplied only from a power sources whose parameters are in accordance with those specified by the producer in the device technical datasheet. Therefore, it is forbidden to supply the device from a power sources with unknown parameters, unstable or not meeting producer's requirements

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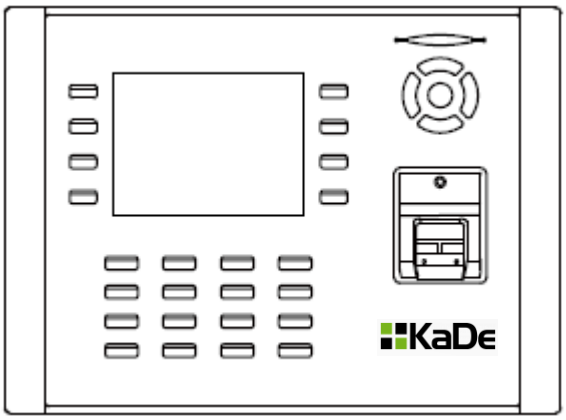
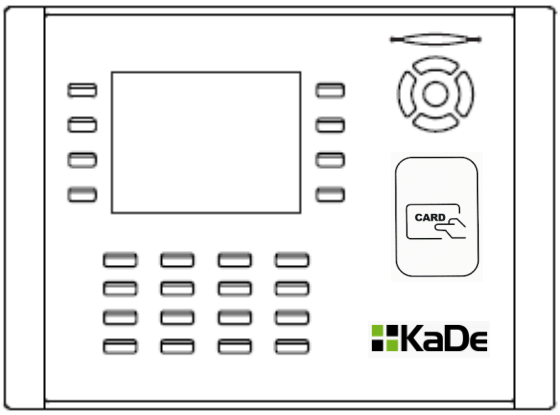
Device description and features



KDH-TA500CFP-IP-U/M/D



KDH-TA500C-IP-U/M/D

KDH-TA500CFP-IP-U/M/D and KDH-TA500C-IP-U/M/D are devices designed for working time recording and access control. KDH-TA500CFP-IP-U/M/D has a biometric fingerprint scanner. They have modern software and a clear menu available on the built -in LCD screen. TCP/IP and RS232/485 ports allow communication with the device in various ways. The USB port can be used to read or transfer data to the terminal. Both models have an access control interface on the rear side for connecting an electric lock, door status sensor, exit button and two Wiegand ports for connecting a reader or connecting to the controller as a biometric reader (KDH-TA500CFP-IP-U/M/D).

Functions

- Read cards of Unique type (125 kHz), Mifare Classic and Desfire (13.56 MHz)
- Biometric identification in less than 1s (KDH-TA500CFP-IP-U/M/D)
- The user ID can contain numbers and letters
- Optional integrated Wi-Fi/GPRS
- Possibility of connecting a printer and direct printing of events
- Output for connecting a bell and alarm signaling device
- Implementation of the client's own wallpapers on the display
- Backup and recovery
- Chip encryption to protect firmware

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Technical specifications

Parameter or function name	**Parameter value - function description**
- fingerprint capacity	8000 only for KDH-TA500CFP-IP-U/M/D
- card capacity	10 000 for KDH-TA500CFP-IP-U/M/D 50 000 for KDH-TA500C-IP-U/M/D
- record capacity	200 000 for KDH-TA500CFP-IP-U/M/D 150 000 for KDH-TA500C-IP-U/M/D
- display	3,5 inch Screen
- communication	RS232/484, TCP/IP, USB host
- Wiegand ports	2 - IN/OUT
- standard functions - optional functions	Workcode, SMS, DST, scheduled-bell, self-service query, automatic status switch, T9 input, photo-ID, 9 digits user ID, anti-passback ID/MIFARE/HID, webserver, Wi-Fi, 3G i GPRS
- biometric identification speed	<1sec
- access control interface	electric lock, door sensor, exit button, alarm, door bell
- operating temperature	0°C do +45°C
- operating humidity	20% - 80%
- dimension	205,6 x 150 x 41,6 (length. x width. x thickness.)
- power supply	DC 12V 1,5A
- gross weight	1,4kg

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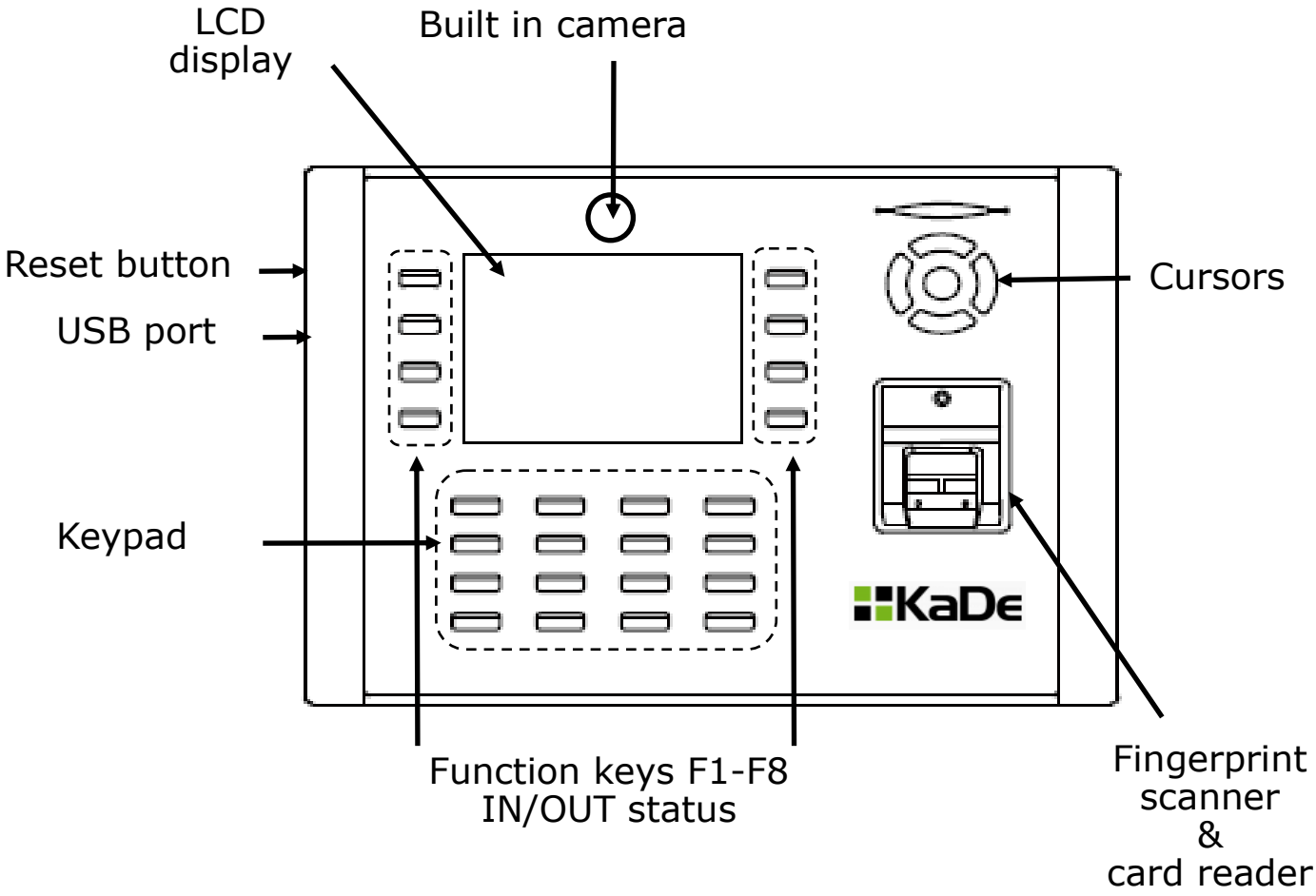
KDH-TA500CFP-IP-U/M/D - front view



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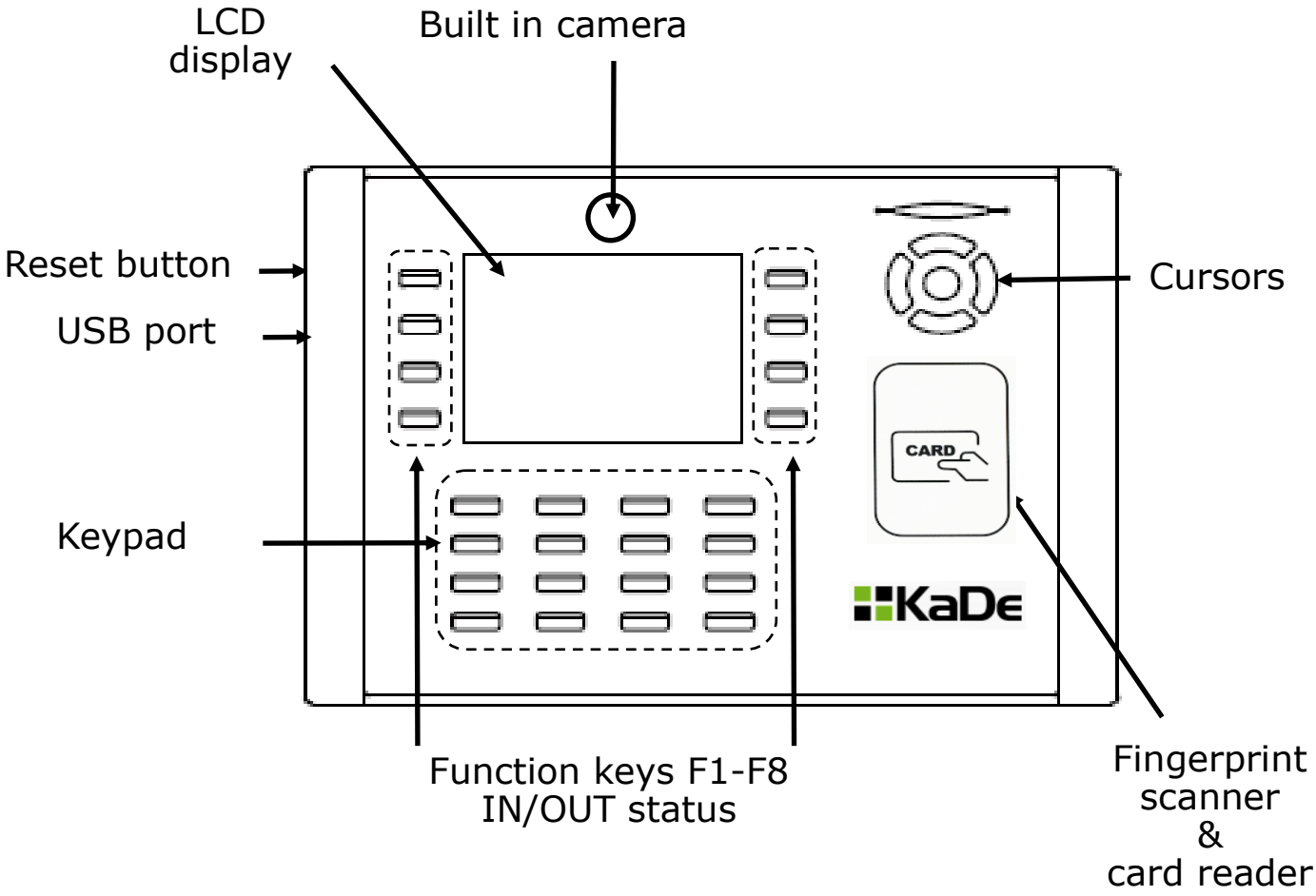
KDH-TA500C-IP-U/M/D - front view



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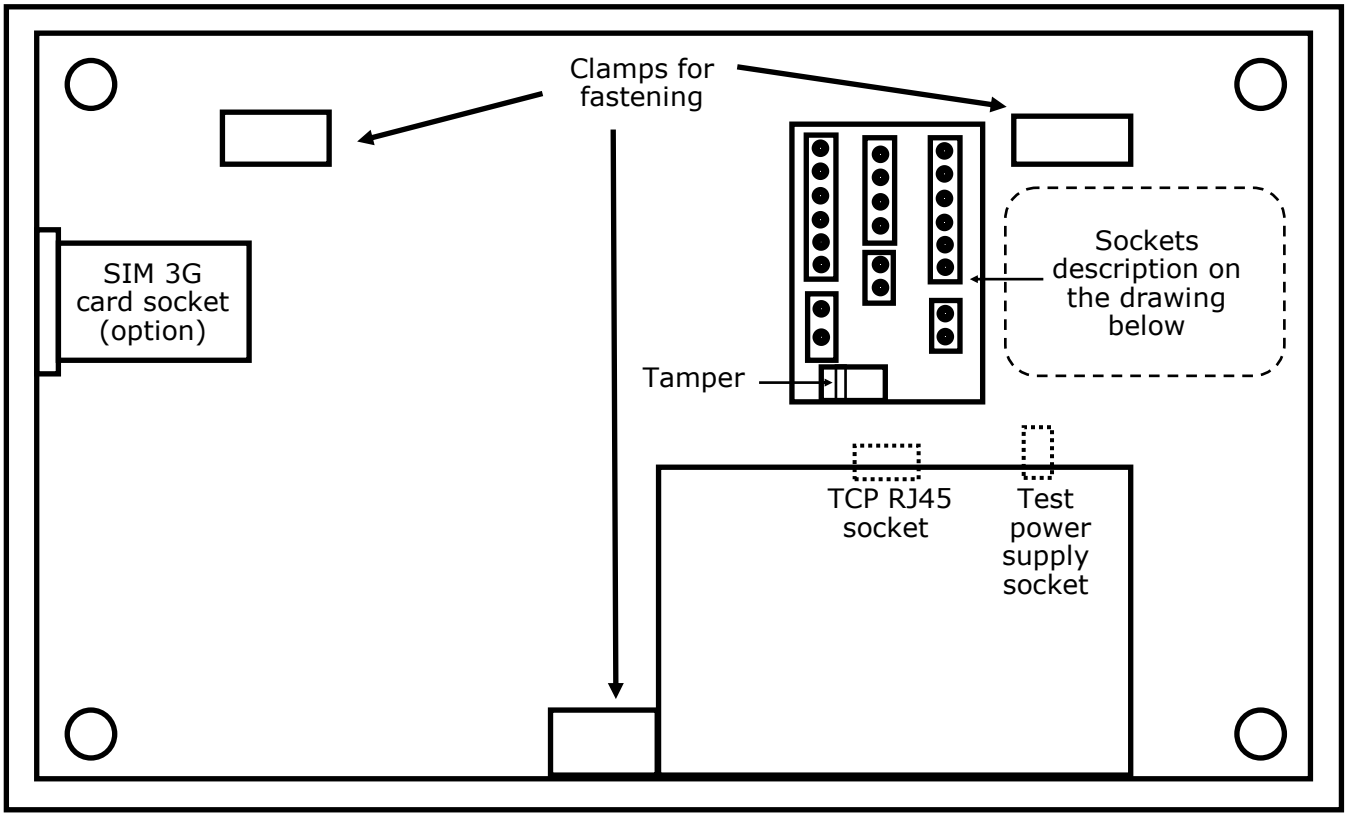
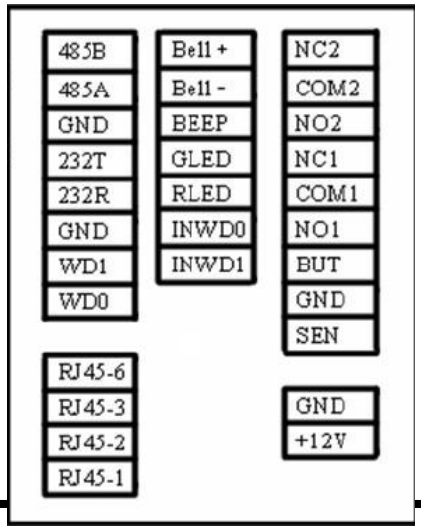
Arrangement of connection sockets on the rear side



485B	RS485
485A	
GND	RS232
232TX	
232RX	
GND	WIEGAND OUT
WD1	
WD0	

RJ45-6	TCP/IP
RJ45-3	
RJ45-2	
RJ45-1	

BELL +	BELL (OPTION)
BELL -	
BEEP	SPARE SPARE SPARE
GLED	
RLED	
INWD0	WIEGAND IN
INWD1	



NC 2	ALARM RELAY
COM 2	
NO 2	
NC 1	LOCK NC
COM 1	LOCK C
NO 1	LOCK NO
BUT	EXIT BUTTON
GND	GND
SEN	DOOR CONTACT

GND	ZASILANIE
+12V	

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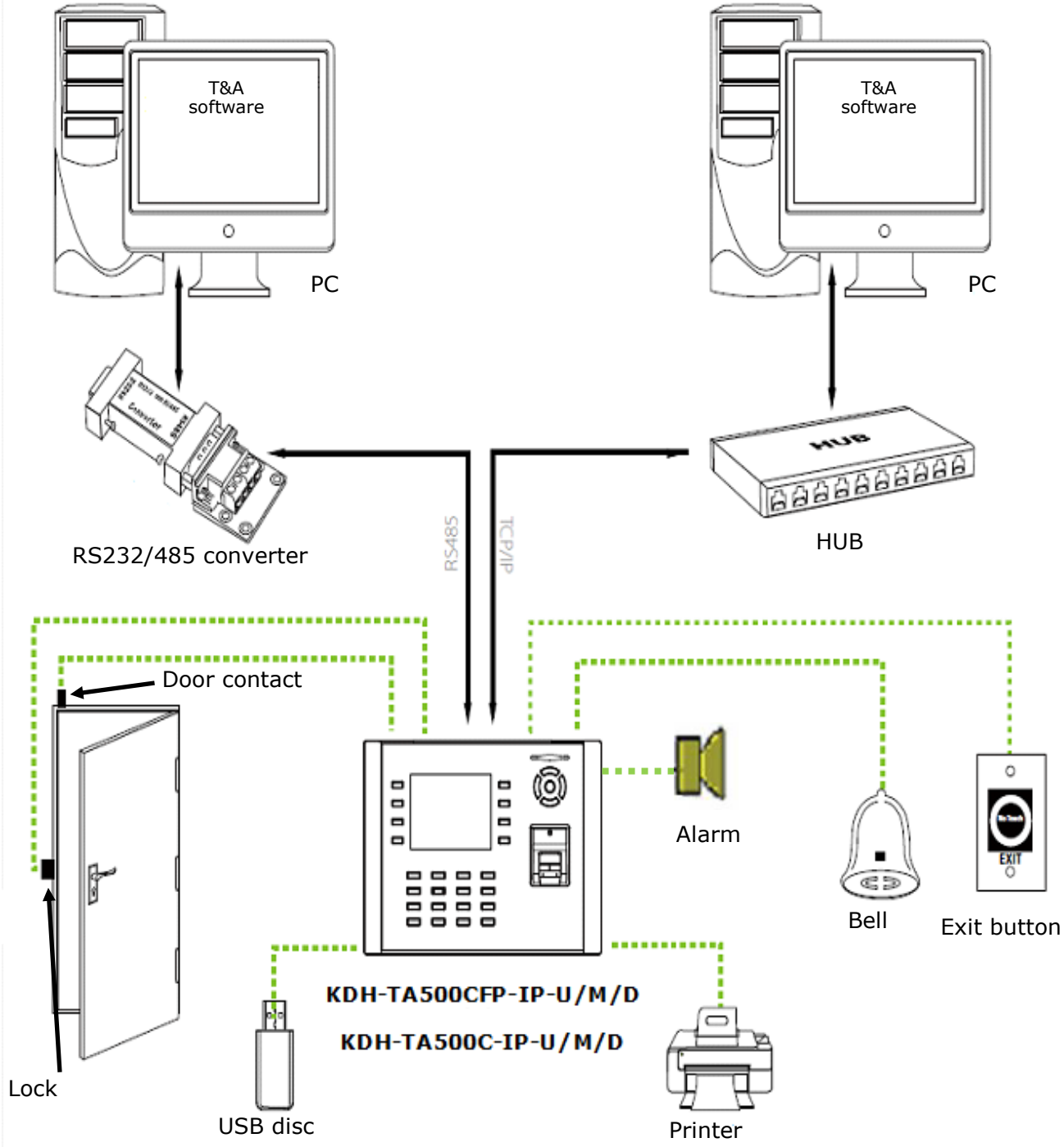
Terminal connection sample diagram with peripheral devices



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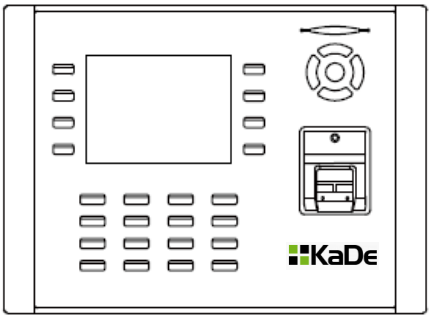
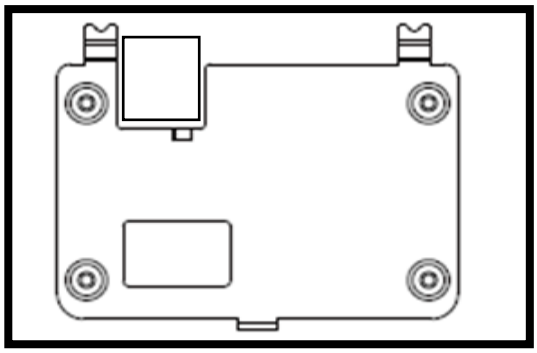
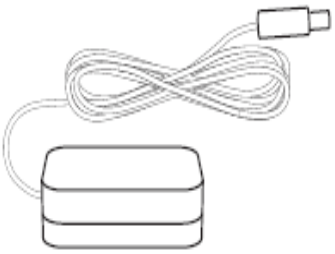
Packing list



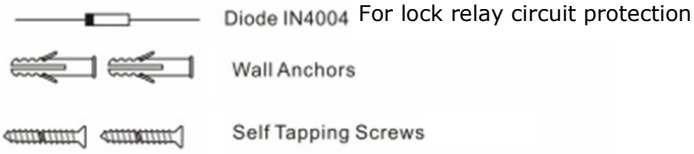
Terminal
KDH-TA500C-IP-U/M/D
KDH-TA500CFP-IP-U/M/D



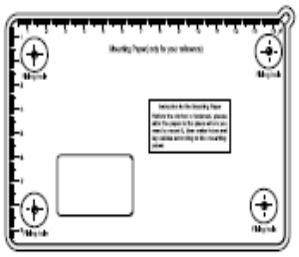
Mounting bracket
Rubber pad (option)



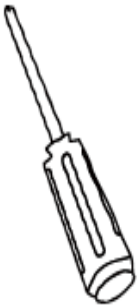
Test power supply



Access control
connection cables set



Mounting template



Cross screwdriver

Terminal mounting

- Use the enclosed mounting template to drill holes in the wall
- Secure the mounting bracket with the screws provided on a rubber pad (option)
- Connect the wires to the terminal sockets
- Hang the terminal on the mounting bracket and secure it at the bottom edge with the screw.

Note: Power supply which is in box is dedicated mainly to test the correct operation of the device. For normal use, a buffer power supply with a battery is recommended, eg. AWZ-200.

Programming information

The configuration of the terminals is carried out with the NMS AC software version V4.1 or higher. After establishing communication with the software, it is possible to change the default settings, read events and perform the access control functions, if this mode is used. After reading the events, it is possible to correct the IN/OUT registration and generate reports that settle the working time. The terminals can also be programmed from the keypad after entering the programming mode (M key - this mode should be protected with the administrator password). For programming the terminal from the keypad, see a separate manual.

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