READER D-3-USB - TABLE READER

The Reader D-3-USB table reader is intended for use with Access control and Time & Attendance software Codeks V10 for simplified insertions and issuing of contactless cards.
The Reader connects to the computer with a USB cable and creates a virtual COM port through which it sends data. Because of this, it can be used with different software applications from other producers.
The Reader in connection with **Jantar Table Reader software** can transfer card data to the PC as it would be typed with PC keyboard. With this software also **commands** as Enter, Tab and skip row can be executed after the card is read. Also **automatic login** into the Codeks V10 software can be achieved.

TECHNICAL DATA

READER D-3-USB	
Reading frequency	13.56 MHz
Reading distance	Up to 5cm
Current consumption	120mA
Operating voltage	5V DC from USB port
Operating temperature	From 5°C to 40°C
Protection	IP21
Cable	USB A – C
Dimensions (mm)	64x10 (WxD)
Connector	USB C
Operating system	Windows 10 Windows 11

DRIVER INSTALLATION

Reader D-3-USB has signed drivers on Windows 10 and 11 OS. When the Reader is plugged in the PC for the first time, the driver is automatically installed.

USB COM PORT NUMBER

When you connect the Reader D-3-USB to the computer, it creates a virtual COM port.

Check which COM port number was assigned to the reader:
- write **DEVICE MANAGER** in Windows **SEARCH BOX** and confirm
- click **PORTS (COM&LPT)**
- **COM port** number is displayed in brackets next to **USB SERIAL DEVICE** e.g. **(COM4)**

IMPORTANT
If you disconnect the Reader D-3-USB from the USB port and plug in another Reader D-3-USB in the same USB port, then the second Reader D-3-USB will get a different COM port number even though it is plugged into the same USB port as the previous one.

USAGE

The Reader can be set to read card numbers in:
- 3byte (used in old Jantar systems - e.g. Jantar V7 software)
- 4byte (used in new Jantar systems - e.g. Codeks V10)
- Unlimited (full card number)

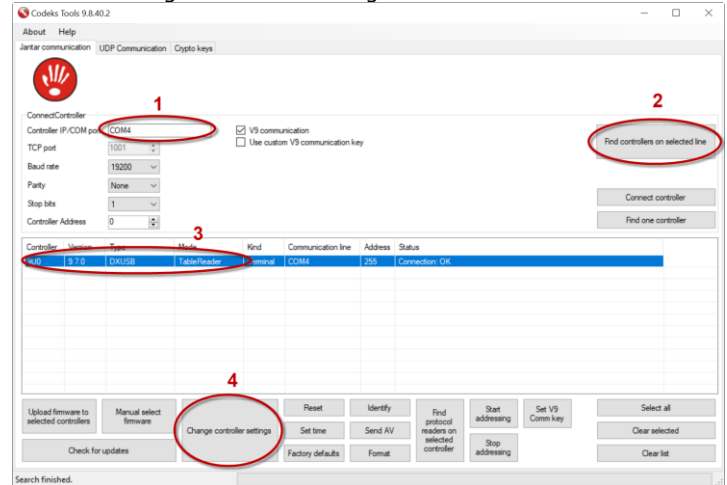The card length is set in Codeks Tools software.
Recommended card length setting, when the Reader is used with **Codeks V10 AC or TA** software, is **"Unlimited",** since the card length can be additionally stripped with **Jantar Table Reader** software.
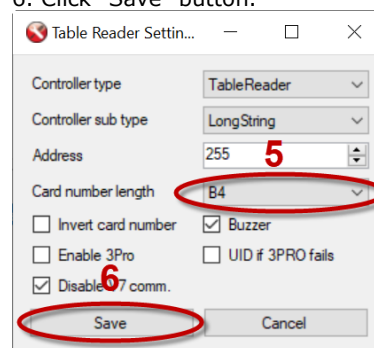
CARD LENGTH SETUP IN CODEKS TOOLS software:

Codeks Tools software download link can be obtained from us or from our partner from whom the Reader D-3-USB was bought from.
Plug the Reader D-3-USB into the USB port on the PC and open Codeks Tools software.
1. Insert COM port number of the Reader D-3-USB in to the "Controller IP/COM port" field.
2. Click "Find controllers on the selected line" button.
3. The Reader D-3-USB will appear in the middle window. Select the reader by clicking on it.
4. Click "Change controller settings" button.

5. In "Card number length" menu select the desired card reading length.
6. Click "Save" button.

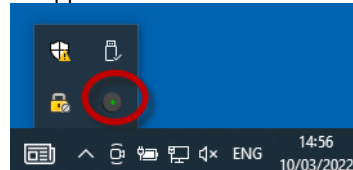## CARD READING SETUP WITH JANTAR TABLE READER software (PC keypad emulation)

Jantar Table Reader Software can be found on our web page in the "Downloads" section.
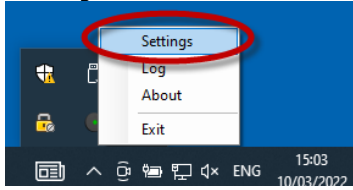Codeks Tools must be closed and Reader D-3-USB must be pluged in USB port on the PC.
1. Start Jantar Table Reader software with doble click on the icon on the desktop.
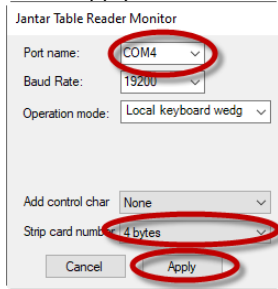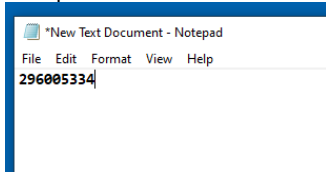

2. Application will be started in minimized mode.

3. Right click on the minimized application icon and select "Settings".

4. Select the COM port of the Reader D-3-USB in "Port name" menu.
Select the card number length in "Strip card number" menu.
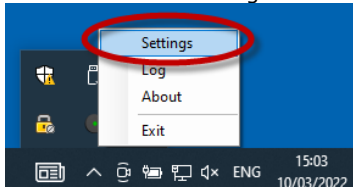Click "Apply" button.

5. Open Notepad software and register a card on the Reader. If setup was successful the card number will appear in the Notepad.
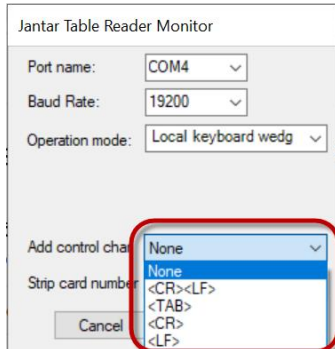

Optional – ENTER, TAB or SKIP ROW automatically used after card registration
In Jantar Table Reader:
1. Right click on the minimized Jantar Table Reader application icon and select "Settings".

2. In "Add control char" menu select:
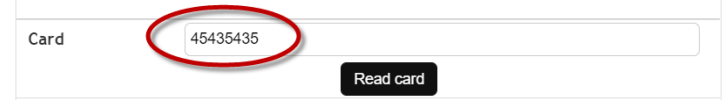<CR><LF> for ENTER
<TAB> for TAB
<LF> for SKIP ROW

Click "Apply" button.

3. The selected command will be automatically executed after the card is registered.
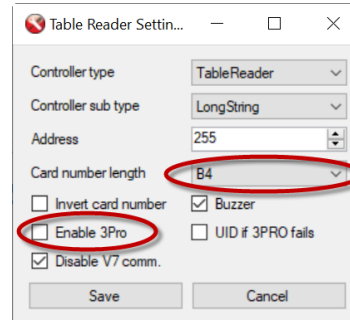
ENTER THE USER CARD in CODEKS V10
1. Log in to the Codeks V10 software as administrator with user editing rights.
2. Open the "Users" window and double-click on the user to open the editor or click the "Add user" button.
3. Left-click in the "Card" field and register the card on the Reader D-3-USB. The card number will be displayed in the field. **You must not use the "Read card" button**. Confirm the card number by clicking on the "Save" button.
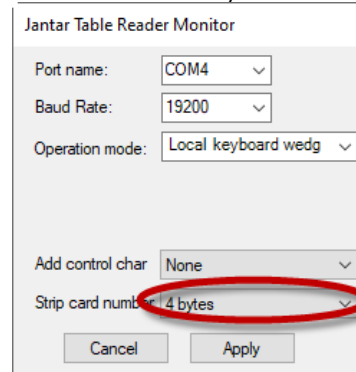

READ ENRYPTED CARD NUMBER – 3PRO
All RFID cards with number **3** in the product code supplied from Jantar d.o.o. have encrypted section of the card in which card number is saved. This is called 3PRO encryption. This number is unique and is different than UID number of the card. 3PRO encryption can only be used in Jantar systems which are 3PRO compatible (AC and T&A V9 version controllers and protocol readers).

3PRO card number can be read with Reader D-3-USB. Setup is the same as described in **CARD LENGHT SETUP IN CODEKS TOOLS software** section (in this manual), but with "Enable 3PRO" possibility turned on and "Card number length" set to "B4 or "Unlimited".
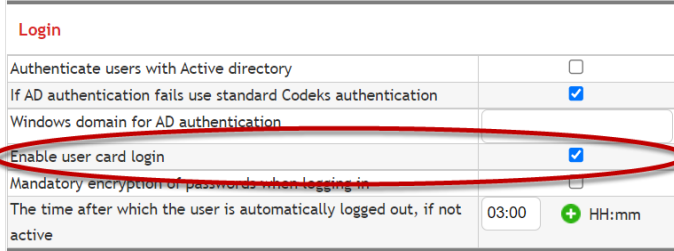

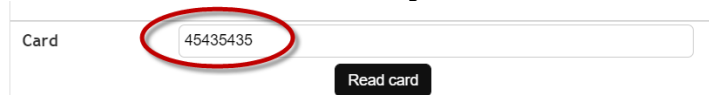In **Jantar Table Reader** software "Strip card number" must be set to minimum "4bytes".

USE THE READER D-3-B FOR LOGIN INTO CODEKS V10 SOFTWARE
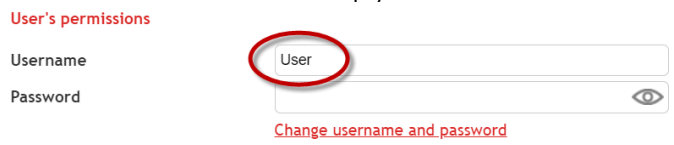
In Codeks V10 software:
1. Login in Codeks V10 software as a Super administrator.
2. Open "Settings/Preferences" window. In "Program settings" tab search and enable "Enable user card login". Click "Save" button.

3. Open "Users" window and double click a user who will have login possibility. The user needs to have a card number inserted in the "Card" field in the "Basic settings" tab.
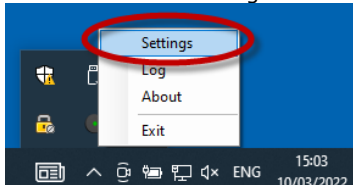

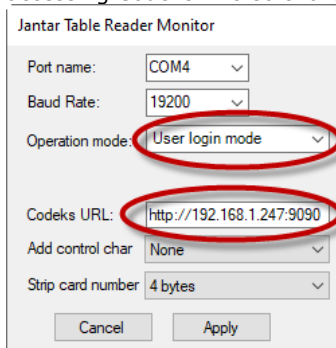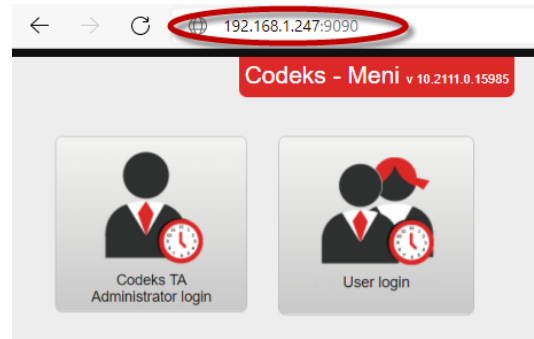Username must be set in "Advanced settings" tab in "Username" field. "Password" field must be empty.

In Jantar Table Reader:
1. Setup your Reader D-3-USB in a way that it reads the same card numbers as the ones saved the Codeks V10 system.
2. Right click on the minimized Jantar Table Reader application icon and select "Settings".

3. In "Operation mode" menu select "Enable local login".

4. Write the Codeks V10 URL address in the "Codeks URL" field. This address can be found in the browser URL when user is accessing Codeks V10 software. Click "Apply" button.

5. Register a user card on the Reader D-3-USB. Your primary browser will open Codeks V10 and automatic user login will be attempted.

OUTPUT DATA
Software developers can develop their own application, which can be used with the Reader D-3-USB. By doing so, this data will be helpful.
The reader sends data to COM port in the following format:
dc ad c3 c2 c1 c0 c4 r0 crc cr

dc – is command byte, value is 0x40
ad – is address byte, value is 0x00
c3 to c0 – 4 byte card number
c4 – card header
r0 – value always 0x00
crc – XOR value of all bytes form **dc** to **crc**
cr – carriage return (0x0d)

Data output format is ASCII (read data is converted to ASCII before transmission to virtual com port, except **cr**).
Card data can be intercepted on virtual COM port with e.g. **Hyper Terminal** software.

ORDERING CODES
READER [box]-[card]-[type]
Box: **D** – round, disk-like shape
Card: **3** – 13.56MHz
Type: **USB –** USB reader

Code	Specification
READER D-3-USB	13.56MHz USB proximity card reader

OTHER
Please read through our guaranty and disclaimer statements.

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