



**READER D-1-USB - TABLE READER**

The Reader D-1-USB table reader is intended for use with Access control and Time & Attendance software Jantar V7 or STOP for simplified insertions and contactless card issuing. The Reader D-1-USB 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.

**TECHNICAL DATA**

READER D-1-USB	
Reading frequency	125kHz
Reading distance	8cm
Current consumption	130mA
Operating voltage	5V DC from USB port
Operating temperature	From 5°C to 40°C
Protection	IP21
Cable	USB A – B mini
Dimensions (mm)	64x10 (WxD)

**USB COM PORT SETTINGS**

When you connect the Reader D-1-USB to the computer, it creates a virtual COM port and the operating system (Win XP, Vista, 7) will automatically find suitable drivers. If it does not, install the FTD USB driver from the accompanying CD or from: <http://www.ftdichip.com/Drivers/VCP.htm>

**Changing COM port:**

- go to **CONTROL PANEL**
- click **SYSTEM**
- click **HARDWARE**
- click **DEVICE MANAGER**
- click **PORTS (COM&LPT)**
- right click on **USB SERIAL PORT** and click **PROPERTIES**
- click **PORT SETTINGS**
- change **BITS PER SECOND** to 19200 or 9600, which ever you wish to use
- click **ADVANCED** and select the **COM PORT** you wish to use

Your USB device is now configured and ready to use.

**OPERATING MODES**

The Reader D-1-USB can work in four different modes. It can work in two different protocols and two different speeds of data transfer. When you connect the reader to the USB port, it will beep from one to four times, depending which mode it is in (introduction beeps). Default mode is mode 1. When it is used with software JantarV7 or STOP, mode 2 must be used. In mode 2, the Reader D-1-USB reads the same card numbers as Jantar’s direct reader R1D N-X.

Mode	Beeps	Protocol and speed
1	1 beep	Standard 19200bps
2	2 beeps	Jantar 19200 bps
3	3 beeps	Standard 9600 bps
4	4 beeps	Jantar 9600 bps

**Changing operating mode**

To change the operating mode, you will need two 125kHz proximity cards. Plug the Reader D-1-USB in to a USB port and wait for the introduction beeps (1 to 4). Immediately after the introduction beep(s) place the first proximity card near the reader, wait for the double beep and remove it. Immediately afterwards, approach the second proximity card, wait for eight more double beeps and remove it from the reader. The reader will start to beep with short beeps. One beep means mode 1, second beep means mode 2 and so on to mode 4. To set it to the desired mode, wait for the corresponding number of beeps and approach the second proximity card.

**OUTPUT DATA**

Software developers can develop their own application, which can be used with the Reader D-1-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**).

**ORDERING CODES**

**READER [box]-[card]-[type]**

- Box: **D** – round, disk-like shape
- Card: **1** – 125 kHz
- Type: **USB** – USB reader

Code	Specification
<b>READER D-1-USB</b>	125kHz USB proximity card reader

**OTHER**

Please read through our guaranty and disclaimer statements.

Connection scheme and additional support for the use of this product can be found on: <http://www.jantar.si/forum/en>

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