

Volume

1



Instruction Manual



EverAccess Desktop Reader

ERS-871

EVERFOCUS ELECTRONICS CORPORATION

ERS-871

Instruction Guide

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Product Overview

The EverAccess desktop reader, ERS-871, incorporates state-of-the-art technology, reliable performance, easy-to-use features, and elegant appearance. The desktop reader can be used to enroll cards into the access control system and bridge multiple controllers via RS485 bus. The EverAccess desktop reader is simple to install; it connects to the computer via USB port. EverAccess Desktop Readers are an ideal choice to enhance your EverAccess Access Control System.

Features

- 125kHz proximity technology
- 3 LED indicators
- Two RS485 interfaces (RJ45 connector)
- USB 1.1
- Built-in audio buzzer
- 200ms read time
- Elegant Design
- Built-in transient voltage suppressor
- Saves time by allowing fast and easy card enrollment at system PC



Parts List

Please be careful when you unpack the box due to the electronics devices inside. Check and make sure that you have all the items below inside the original box:

- 1 125kHz Desktop Reader
- 1 User manual
- 1 USB cable
- 2 RJ45 connectors

If an item appears to have been damaged during shipping, replace it properly in its carton and notify the shipper. If any items are missing, notify your Everfocus Electronics Corp. Sales Representative or Customer Service. The shipping carton is the safest container in which the unit may be transported. Save it for possible future use.

In addition, EverAccess recommends the following parts, to be provided by the installer:

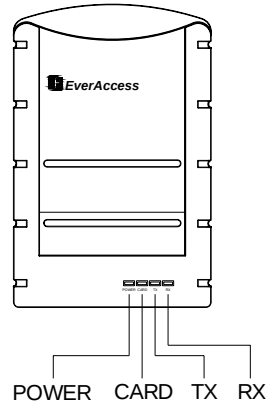
- EverAccess Flex Series access control management software
- EverAccess Flex Series controller
- EverAccess Flex Series card readers

Specifications

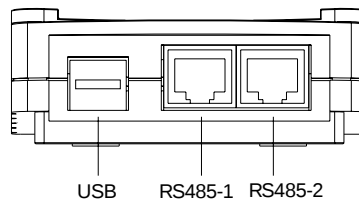
Frequency:	125 KHz
Data Format:	64 bit
Read Range:	5cm-10cm
Read Time:	200ms
Output Format:	RS485
Buzzer:	Built-in
Indicator:	4 LEDs
Power Supply:	USB
Operating Temperature:	-10°C ~ +60°C (14°F ~ 140°F)
Dimensions:	3" x 4.5" x 1.1" (7.6 x 11.6 x 2.9 cm)
Temper Switch:	N/A
Transmission distance:	4000 feet
Keypad:	N/A

Desktop Reader Layout

The figure below shows the top view of the desktop reader. The purposes of four LEDs are given in the figure.



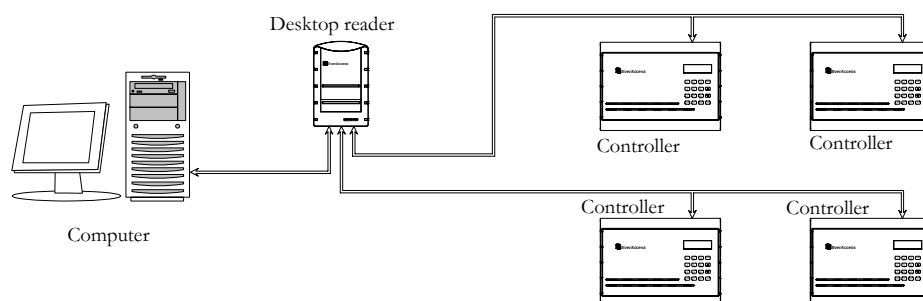
The front view of the desktop reader is shown in the following figure. The definitions of the ports from left to right are USB port, RS485 port 1 and RS485 port 2. No specific sequence is required on two RS485 ports. The RS485 device can be connected to any one of them. The RS485 signal definitions on RJ45 connector are described in next section.



Chapter 2

Installation

The EverAccess desktop is easy to install. A large-size RS485 bus based access control system can be established with a desktop reader. The figure below is an illustration of the system structure.



The installation process is described below:

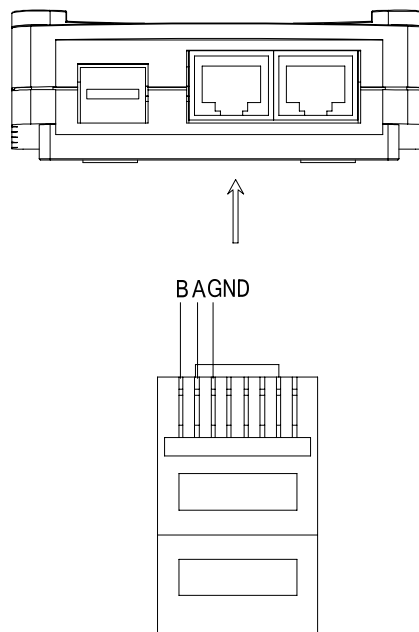
1. Install the driver program on the computer. Refer to chapter 3 for details.
2. Connect one end of the USB cable to the desktop reader, connect the other end to any USB port on the computer. You will hear two beeps once the desktop reader is connected to the computer.
3. Determine the serial port number for the desktop reader to verify that the installation has been successfully completed. Refer to the section “Determine the Serial Port for Desktop Reader” for details.
4. Connect the desktop reader to the controller. Use the RJ45 port on the desktop reader and the RS485 port on the controller. Refer to the controller manual for instructions on connecting the RS485 bus for a controller.
5. If applicable, connect additional controllers via RS485 bus.
6. Run the access control management software. Use the serial port identified in step 3 as the controller serial port. The computer should now be able to communicate with the controller. If this is not the case, double check the installation process. If communication still cannot be established, contact technical support.

Note: If the desktop reader continuously beeps, check the voltage of the power supply on your motherboard. A variation on the power supply voltage may result in a problem.

Wiring the RJ45 Port (RS485 Bus)

The pins on the RJ45 connector, from left to right, are RS485-B, RS485-A and GND. Connect these three pins with the corresponding terminals on the controller. For information on the terminal definition on the controller, please refer to the controller manual.

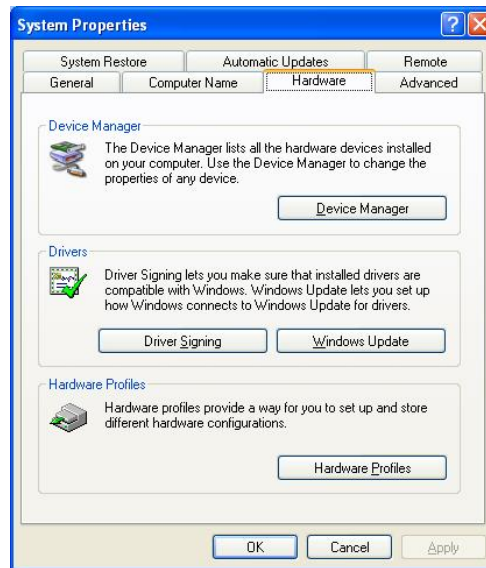
A brief pin definition is shown in the following figure:



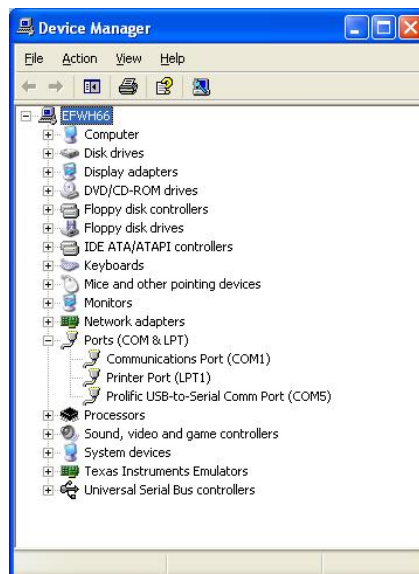
Determine the Serial Port

The installed driver will simulate a serial port on your computer. (The installation of the driver will be introduced in next Chapter.) In order for the management software to establish communication with the controller, the user must specify which com port has been assigned to the simulated port on the computer. In order to determine the serial port, please follow these steps:

1. After installing the driver and connecting the desktop reader to the computer via USB, right click "My Computer". Then click "Properties" in the context menu.
2. A dialog box will pop up (shown in the figure below). Open the hardware tab by clicking "Hardware". Next, click "Device Manager".



3. The device manager dialog box will appear. Expand the node of “Ports (COM & LPT)”. “Prolific USB-to-Serial Comm Port” is mapped to the desktop reader. If this item is shown, the driver installation was successful and the desktop reader is connected to the computer correctly. The serial port for the desktop reader is displayed in parenthesis immediately after the “Prolific USB-to-Serial Comm Port” tag.



Chapter 3

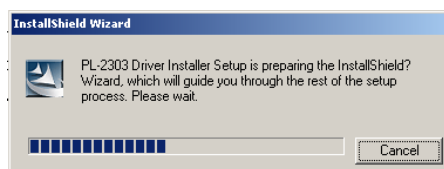
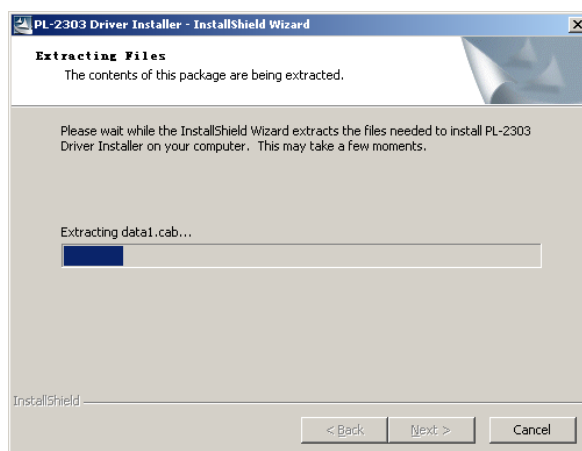
Install the Windows Driver

In order for the desktop reader to be recognized by the computer, the driver must be installed. Before installing the desktop reader hardware, please follow the instructions below to install the driver.

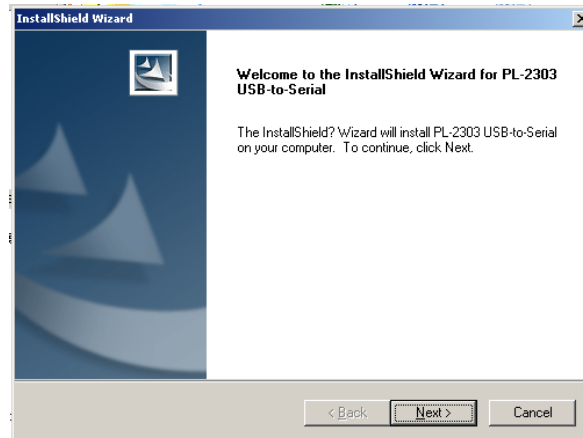
Install

1. Insert the installation CD included with the EverAccess controller in the computer's CD drive. Run the driver installation program "PL-2303 Driver Installer.exe".

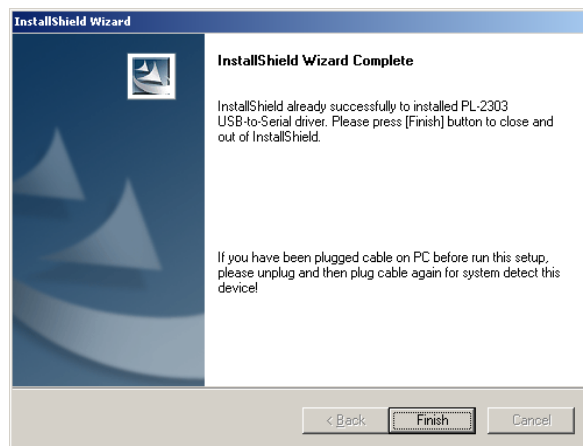
The follow dialog box will pop up:



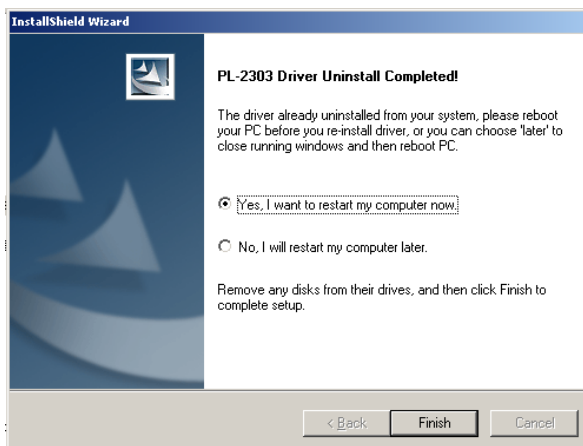
2. Click the “next” button.



3. Click the “Finish” button to confirm.

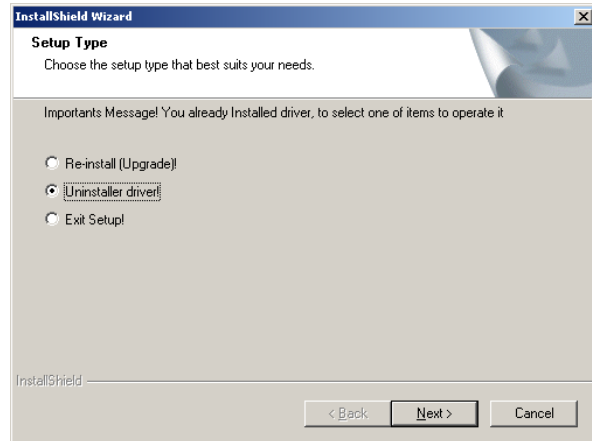


4. Click the “Finish” button again to restart the computer.



Uninstall

To uninstall the driver, run the same installation program (PL-2303 Driver Installer.exe). Check “Uninstaller driver” and click “Next”



After uninstalling the driver, click “Finish” to restart the computer.



Notes

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