

# aptiQ Serial/USB Reader Manual

## Overview

The Reader will only read aptiQ cards encoded with 26A, 37X, or 40x card data.

The USB model emulates a keyboard and will keystroke facility code and badge id fields from the card to the cursor's location on the screen. (Data format: FC + ID + <CR> )

The serial RS-232 version delivers the card's data in 4bit Binary Coded Data (BCD) with delimiters (Data format: ";" + FC + ID + "?"). ";" is represented by ASCII value of 0x3B and "?" is represented by ASCII value of 0x3F. Data will be sent over RS-232 at (9600, 8, N, 1).

Facility code data is of variable length and Badge ID data is a fixed length of 9 digits right justified with zeros as pad data.

The beeper activation shall indicate to the cardholder that the card data was read properly and the data was transferred to the host controller.

Beeper activation is not controllable by the host controller.

The beeper activation does not indicate successful transaction between the card and the host controller (i.e. that access is granted or that cash has been deducted from the cardholder account).

## Features

**No software required on server or client:** Utilizes a plug-n-play USB or RS-232. For PC's without a built in RS-232 connection an RS-232 to USB converter must be used if RS-232 data is desired.

**Platform Independent:** Supports any operating system with USB or RS-232 support

## Installation Instructions:

For the USB Reader, simply plug the A type connector on the USB cable into the computer. The computer will auto recognize the Reader and install the device.

Once installed and a card is read, the data output will take place in the active text field. The user will need to click into the text field they desire the output to be placed. This active text field can be a cell in an Excel file, a Word file, or any application or field that accepts text.

For the serial version of the reader, plug the serial connector of the cable into a serial port on a computer. Data will be sent over RS-232 with the settings of 9600, 8, N, 1.

Note:

On a Linux based PC, mounting of the USB Human Interface Device may be required.

## **Regulatory Statements:**

### **FCC Statement:**

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications to this equipment not expressly approved by Ingersoll Rand could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

### **Industry Canada Statement:**

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

### **Déclarations D'industrie Canada**

Ce dispositif est conforme à la norme RSS d'Industrie Canada relative aux dispositifs exempts de licence. Le fonctionnement est assujéti aux deux conditions suivantes: (1) ce dispositif ne doit pas occasionner de brouillage, et (2) ce dispositif doit accueillir tout brouillage y compris le brouillage qui risque d'entraîner un mauvais fonctionnement du dispositif.