

Door/Turnstile Controller F.A.Q.

Bio-Logic, Inc.
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Introduction

When combined with a barcode reader and Electronic Door Controller, Gym Assistant can provide access control for your facility.

For access control at the front desk, you may want to install a turnstile or gate. Members swipe a card and then pass through a turnstile, swing gate or half-height door.

For 24-hour access to your facility, you may want to install an electronically controlled door lock on the outside entrance.

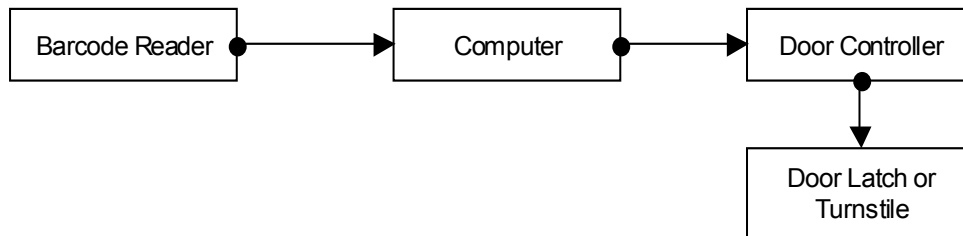
Most turnstiles, gates and electronically controlled locks require the same type of input to trigger; they all work by momentarily closing a circuit. Think of a doorbell where you press a button to trigger the doorbell chime.

How does it work with Gym Assistant?

GateKeeper is the software that comes bundled with our serial barcode readers. GateKeeper serves the following functions:

- It reads data from a serial barcode reader.
- It checks member status in Gym Assistant and automatically records member check-ins.
- It triggers a door or turnstile controller.

Note: Controlling a door or turnstile requires two serial ports on your computer, one port for input from the Barcode Reader and one port for output to the Door Controller. See "Adding Serial Ports to Your Computer" below if your computer does not have two available serial ports.



Access Control with Barcode Reader and Door Controller

Access Control with Gym Assistant works as follows:

- The member swipes a barcode through the barcode reader.
- GateKeeper receives the barcode data from the reader and checks the member's status.
- If the member is up-to-date, GateKeeper sends a signal to the Door Controller.

The Door Controller closes a circuit to open the door latch or turnstile.

What type of lock or latch should I purchase?

You can use any type of lock that works for your physical layout. Most common are electronic mechanical latches and magnetic locks. The only requirement is that the mechanism must be triggered with a dry contact (like a doorbell buzzer). The dry contact can be **normally-opened** (for most mechanical latches) or **normally-closed** (for most magnetic locks).

Where can I purchase a gate or electronically controlled latch?

We recommend that you purchase these items locally from a locksmith or security company and have them professionally installed. SmartHome (www.smarthome.com) is a good source for basic electric door strikes and deadbolts. On their website search for “electric strike” to view a quick listing of appropriate products.

Where can I purchase a turnstile?

Tomsed Corporation (800-334-5552 or www.tomsed-turnstiles.com) has a moderately-priced turnstile (Model TUT-50E, Entry-Gard Electric Turnstile). Turnstile Security Systems (905-890-2222 or www.turnstilesecurity.com) also carries a complete line of turnstiles and swing gates.

Who will do my installation?

Ask the company from which you purchased your hardware to recommend a local contractor.

How do I add Serial Ports to my computer

You may need to add one or more serial ports to your computer. You can purchase and install a serial interface (RS-232) card into your computer to provide 2-4 additional serial ports. If you are unsure about installing hardware into your computer, then we recommend that you have a local computer shop install these cards.

You can easily add ports yourself by purchasing one or more USB-to-Serial adapters. These adapters plug into a USB port and provide a connector to plug in a serial cable. Make sure that you install the software that came with the adapter before plugging the adapter into your computer.

A good source for computer hardware is CyberGuys, 800-892-1010, www.cyberguys.com
Part numbers for the items you might need are:

2-Port Serial Card:	#204 0264, IOFLEX-2CS, \$36.95
USB-to-Serial Adapter (DB9M):	#104 0475, G-UC232A, \$19.95