Gym Assistant Mobile Reader Setup

November 2025

Introduction

The Mobile Reader allows members to check-in or to gain access using the Gym Assistant MemberConnect mobile app. The app generates a QR code that can be presented to the reader.

The Mobile Reader also reads standard barcode keytags. If you currently have a slot barcode reader for access, the Mobile Reader can replace the slot reader.

The Mobile Reader can be wired so that the reader frame will flash green on a successful entry (as shown above) or red on a denied entry.

Requirements

Mobile Credentials require a Gym Assistant MemberConnect Elite plan, which includes the MemberConnect mobile app.

## What is included in the box

- Plastic enclosure, including:
    - B-Id 721EX controller board
    - 12VDC power supply and pigtail
    - 2 Varistors (pre-installed on controller board), which is protection for the relays
    - 6 feet of 4-conductor wire (to connect to computer)
    - Crimp connectors
    - Small flathead screwdriver
- USB/RS485 converter
- 4-conductor and/or 2-conductor wire (if ordered)

Tools that you will need

- Wire cutters/strippers (for 24-gauge wire)
- Pliers (for crimping wire connections)
- Voltmeter (optional)

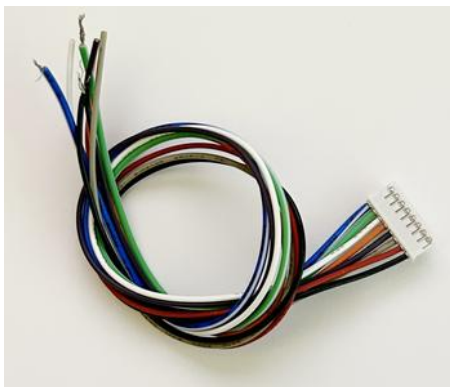## Components included with Mobile Reader

- Mobile Reader
- Backing Plate (black)
- Junction Box (with 2 mounting screws)
- 22/6 wire (optional)
- Wire Crimp Connectors
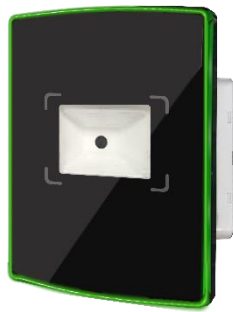
Mobile Reader

Backing Plate

Wiring Harness

Junction Box

Wire Crimp Connectors

Wiegand/Serial Adapter
Only for direct connection to computer
(Converts Wiegand interface from reader to Serial/RS232)

Reader Installation

The Mobile Reader should be mounted on a junction box. A plastic junction box is provided to mount the reader on a wall, if necessary. For a cleaner flush-mounted installation, however, the reader can be mounted to a standard recessed junction box.

Note: The reader should NOT be mounted in a junction box that contains standard (120V) wiring.

Remove the two hex screws at the bottom of the reader (with the include hex wrench), then slide the mounting plate off the reader.

Place the backing plate on the junction box, then attach the mounting plate on top of the backing plate.

Combining Mobile Reader with Other Readers

The Mobile Reader can be combined with other reader on a single Wiegand connection to the access controller, for example if you are adding the Mobile Reader to an existing Proximity Reader. Outputs from both reader can be connected in parallel at the door, with only one set of wires running back to the controller. Alternately both readers can run wires back to the controller with the two sets of wires connected in parallel at the controller.

Optionally you can connect multiple readers using our Wiegand Consolidator, which has two reader inputs and one output (to the controller).

Wire Connections

Connect wires to the larger wiring harness using the included wire crimps. (You will not use the smaller wiring harness.) It is generally easier to connect all the wires to the harness and then connect the harness to the back of the reader.

> ***NOTE: You will connect the BLUE reader wire to the white connecting wire. You will <u>not</u> connect the white reader wire to the white connecting wire.***

Note that you should insert both wires into the <u>flat</u> end of the wire crimp, then clamp down on the crimp with pliers.

Reader Function	Reader Color	Connecting Wire	Controller Terminal
12VDC	Red	Red	12VDC
GND	Black	Black	GND
WG0 (signal)	Green	Green	WG0 (or WD0)
WG1 (signal)	Blue	White	WG1 (or WD1)
Red LED (optional)	Orange	Yellow or Brown	LR (721EX) or LEDR (721V2)
Green LED (optional)	Purple	Blue	LG (721EX) or LEDG (721V2)

Do not change the reader DIP Switches from their default positions (OFF/OFF).

Testing the Reader

On power-up, the reader will emit one long beep, and the reader will illuminate with a white LED.
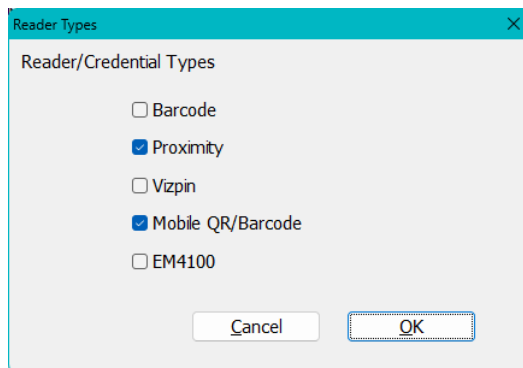
When you present any barcode to the reader (optimal distance is 3-6 inches), the reader should beep once. If you hold the barcode in front of the reader it will beep continuously.

Configure Gym Assistant

In Gym Assistant select **Card Reader / Access Control** from the **Settings** menu.
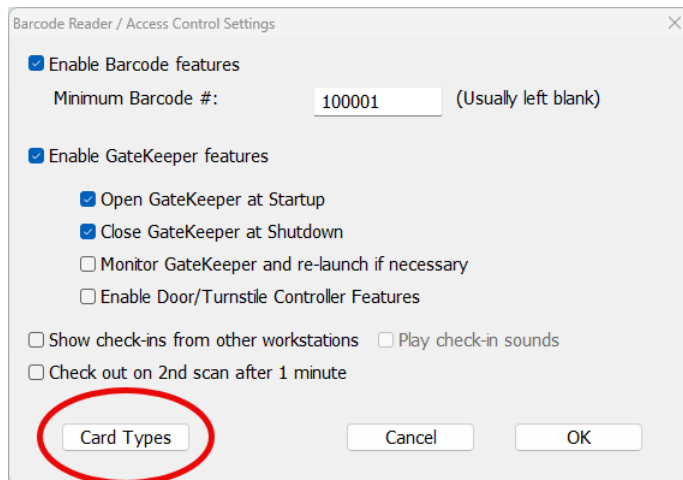
Click **Card Types**.

Check the boxes for all the types of credentials that you use (including **Mobile QR/Barcode**), then click **OK**.

Configure GateKeeper

In GateKeeper, select **Access Points / Ports** from the **Settings** menu.

Select the entrance where the Mobile Reader is connected.

Click **Reader Types**.
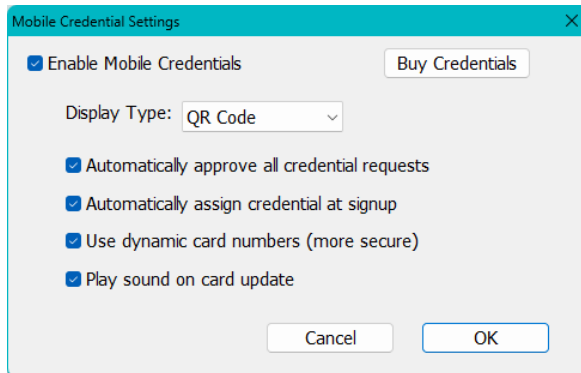

Check the boxes for all the types of readers connected for this entrance (including **Mobile QR/Barcode**), then click **OK**.

Gym Assistant Mobile Credential Settings

In Gym Assistant, select Mobile Credentials from the Settings menu.

Enable Mobile Credentials

Enables mobile credentials functions in the software.

Display Type

Specifies now the mobile credential should be displayed.

- o **QR Code** format is recommended
- o **Barcode** format can also be read by linear barcode readers

Automatically approve all credential requests

If this option is checked, no staff intervention is required to approve new credential requests.

Automatically assign credential at signup

If this option is checked, a mobile credential will automatically be assigned when a new member record is created.

Use dynamic card numbers

If this option is checked, the member's credential number will automatically change after each use. This increases security so that a member cannot share their credential with a simple app screenshot.

Play sound on card update

If this option is checked, Gym Assistant will play a sound every time a member's credential is automatically updated.

Assigning Mobile Credentials to a Member

There are three different ways that a member can be given a mobile credential:

- Credential is automatically assigned at signup
- Staff member assigns credential in Gym Assistant
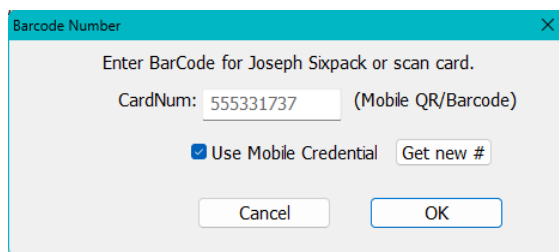- Member requests Credential in Mobile App

Credential is automatically assigned at signup

In Mobile Credential Settings (above), check the box for **Automatically assign credential at signup**.

Whenever a new member record is created, that member is automatically assigned a mobile credential.

Staff member assigns credential directly in Gym Assistant

In Gym Assistant click the **CardNum** button.

Check the **Use Mobile Credential** box. If the member already has a barcode set then click **Get new #** to assign a new mobile credential.

Then click OK to save the new card number.

Member requests a mobile credential in Mobile App

In the MemberConnect mobile app, the member should click the Access icon.
The member should see a message "Your mobile access request has been submitted".

Automatic approval of Mobile Credential requests

If you have set Gym Assistant to automatically approve all credential requests, then within a minute or two the member should receive an SMS telling them that their mobile access request has been approved and that they can now access the club.

Manual approval of mobile credential requests

If you have set Gym Assistant to <u>not</u> automatically approve all credential requests, then you should see in the Portal Status area in the bottom-right corner that you have *X Member Updates*.

Click on the Portal Status area, then select Download Updates. Or select **Download from Portal** from the **Portal** menu, then click **Download Updates**.

Select the Mobile Access Request for that member, then click **Review** (or double-click on the request).

Click **Approve**.
The member will receive an SMS that says "Your mobile credential is ready for use in the Gym Assistant MemberConnect app!"

Rejecting a mobile credential request

If you reject the mobile credential request (by clicking Reject instead of Approve), the member will receive an SMS that says "Your mobile credential request was reviewed but not approved. Please contact the club for more information."

If the member clicks the Access icon in the mobile app they will see a message "Your Mobile Access request has been rejected by the club. Please send a message or call the club with any questions."

A staff member will need then to assign a mobile credential directly in Gym Assistant. (see above)