INSTALLATION GUIDE

ProBio(QR)

Version: 1.0
Date: May 2021
Safety Precautions

Before installation, please read the following precautions carefully to prevent risks and dangers to this product, users and any other person.

Do not expose to direct sunlight, water, dust and soot.

Do not place any magnetic objects near the product. Magnetic objects such as magnets, CRT, TV, monitors or speakers may damage the device.

Do not place the device next to any heating equipment.

Prevent water, drinks or chemicals leaking into the device.

This product is not intended for use by children unless they are supervised.

Do not drop or damage the device.

Do not disassemble, repair or modify the device.

Do not use the device for any purpose other than those specified.

Remove dusts or dirts regularly. While cleaning, wipe dust off with a smooth cloth or towel instead of water.

Contact your supplier in case of any problem!
Product Dimensions & Installation

**Product Dimensions**

Attach the mounting template sticker to the wall, and drill holes according to the mounting paper.

Fix the back plate on the wall using the wall mounting screws.

Attach the device to the back plate.

Fasten the device to the back plate with a security screw.

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**Installation on the wall**

1. Attach the mounting template sticker to the wall, and drill holes according to the mounting paper.
2. Fix the back plate on the wall using the wall mounting screws.
3. Attach the device to the back plate.
4. Fasten the device to the back plate with a security screw.

*Baseline 1.15m*
Power Connection

- **Without UPS**

- **With UPS (Optional)**

- **Recommended AC Adapter**
  - Recommended AC Adapter: **12V, 3A**
  - To share the power with other devices, use an AC Adapter with higher current ratings.
Ethernet Connection

LAN Connection

Connect the device and the software over an Ethernet cable. An example is shown below:

Default IP Address: 192.168.1.201
Subnet Mask: 255.255.255.0

IP Address: 192.168.1.61
Subnet Mask: 255.255.255.0

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>WIRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RJ45-1</td>
<td>Yellow</td>
</tr>
<tr>
<td>RJ45-2</td>
<td>Green</td>
</tr>
<tr>
<td>RJ45-3</td>
<td>Red</td>
</tr>
<tr>
<td>RJ45-6</td>
<td>Black</td>
</tr>
</tbody>
</table>

Note:

In LAN, the IP Addresses of the Server (PC) and the device must be in the same network segment when connecting to the ZKBioSecurity software.
Click [Comm.] > [Ethernet] > [IP Address], enter the IP Address and click [OK].
RS485 Connection

RS485 Fingerprint Reader Connection

DIP Settings

1. There are six DIP switches on the back of RS485 fingerprint reader, switches 1 to 4 are for RS485 address, switch 5 is reserved, switch 6 is for reducing noise on a long RS485 cable.
2. If RS485 fingerprint reader is powered from the device, the length of wire should be less than 100 meters or 330 ft.
3. If the cable length is more than 200 meters or 600 ft., the number 6 switch should be ON as below.

Distance: Less 200 meters

Distance: More than 200 meters
Lock Relay Connection

The system supports both **Normally Opened Lock** and **Normally Closed Lock**. The **NO Lock** (Normally Opened when powered) is connected with 'NO' and 'COM' terminals, and the **NC Lock** (Normally Closed when powered) is connected with 'NC' and 'COM' terminals. The power can be shared with the lock or can be used separately for the lock, as shown in the example with NC Lock below:

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**Device Not Sharing Power with the Lock**

[Diagram of lock relay connection]

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>WIRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUX</td>
<td>Brown</td>
</tr>
<tr>
<td>GND</td>
<td>Purple</td>
</tr>
<tr>
<td>BELL-</td>
<td>Green</td>
</tr>
<tr>
<td>BELL+</td>
<td>Orange</td>
</tr>
<tr>
<td>SEN</td>
<td>Yellow</td>
</tr>
<tr>
<td>GND</td>
<td>Red</td>
</tr>
<tr>
<td>BUT</td>
<td>Blue</td>
</tr>
<tr>
<td>NO1</td>
<td>White</td>
</tr>
<tr>
<td>COM1</td>
<td>Black</td>
</tr>
<tr>
<td>NC1</td>
<td>Gray</td>
</tr>
<tr>
<td>AL-</td>
<td>Black</td>
</tr>
<tr>
<td>AL+</td>
<td>Red</td>
</tr>
</tbody>
</table>

*Do not use*

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**Do not reverse the polarities.**
Lock Relay Connection

Device Sharing Power with the Lock

- AUX
- GND
- BELL-
- BELL+
- SEN
- GND
- BUT
- NO1
- COM1
- NC1
- AL-
- AL+

DESCRIPTION WIRE

- AUX Brown
- GND Purple
- BELL- Green
- BELL+ Orange
- SEN Yellow
- GND Red
- BUT Blue
- NO1 White
- COM1 Black
- NC1 Gray
- AL- Black
- AL+ Red

- +12V Red
- GND Black
- IWD0 White
- IWD1 Green
- RLED Blue
- GLED Gray
- BEEP Purple

Do not use

Do not reverse the polarities.

Normally Closed Lock

FR107 Diode

12V DC
Wiegand Output Connection

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>WIRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WD0</td>
<td>Green</td>
</tr>
<tr>
<td>WD1</td>
<td>White</td>
</tr>
<tr>
<td>GND</td>
<td>Black</td>
</tr>
<tr>
<td>RXD</td>
<td>Gray</td>
</tr>
<tr>
<td>TXD</td>
<td>Purple</td>
</tr>
<tr>
<td>GND</td>
<td>Black</td>
</tr>
<tr>
<td>485A</td>
<td>Blue</td>
</tr>
<tr>
<td>485B</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

*Do not use*
Standalone Installation

- ZKBioSecurity
- Door Sensor
- Electric Lock
- ALARM
- EXIT
- No Touch Exit Button
- Ethernet
- WAN
- Input
- Emergency Button
- Output
- Door Sensor
- Output
- Doorbell
- RS485/Wiegand
- USB Disk
- Input
- Alarm
- Exit Button
- Dynamic QR code
- Card Reader
- Download
- App Store
- Google play
Troubleshooting & Download Center

❖ Troubleshooting

1. "Invalid time zone" is displayed after verification.
   • Contact the Administrator to check if the user has the privilege to gain access within that time zone.

2. Verification succeeds, but the user still cannot gain access.
   • Check whether the user privilege is set correctly.
   • Check whether the lock wiring is correct.
   • Check whether anti-passback mode is in use. In anti-passback mode, only the person who has entered through that door can exit.

3. The Tamper Alarm rings continuously.
   • To cancel the triggered alarm mode, carefully check whether the device and back plate are securely connected to each other, and reinstall the device properly if necessary.

❖ Download Center

Use the Mobile phone and scan the QR Code to download the User Manual, Installation Guide and Quick Start Guide.