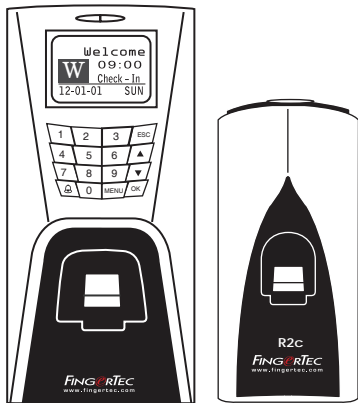


Installation Guide



R2 & R2c
Fingerprint Door Access &
Time Attendance System

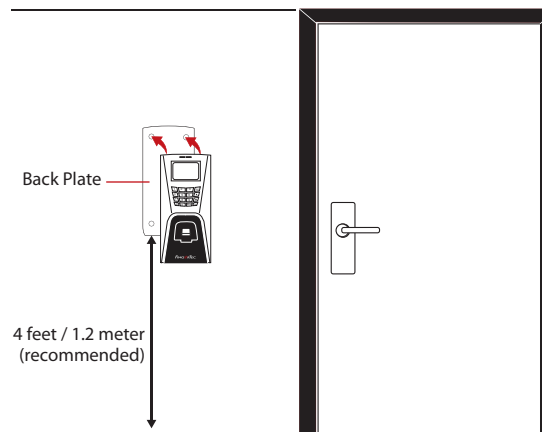
Step 1 Determine the Location and Positioning of the Installation

- Avoid installing the terminals in locations that has contact with a strong light source (e.g direct sunlight, spotlight, fluorescent light, etc)



- Avoid installing the terminals in locations with high moisture or condensation levels in the air
- The recommended installation height of the terminal from the ground is 1.2 meter.

Step 2 Mounting of Terminals on A Wall



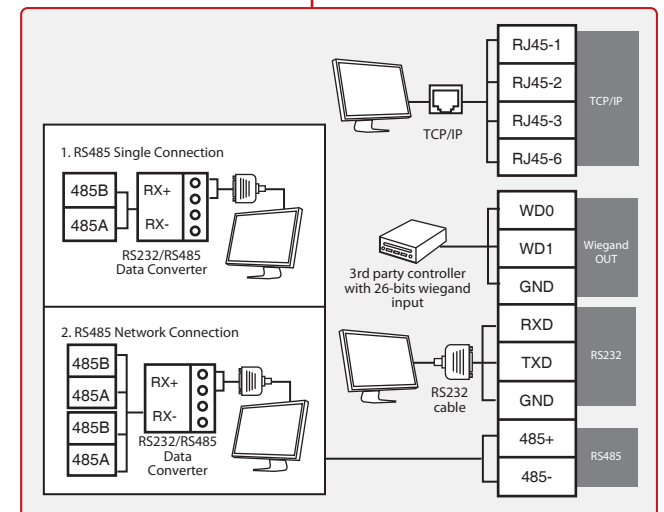
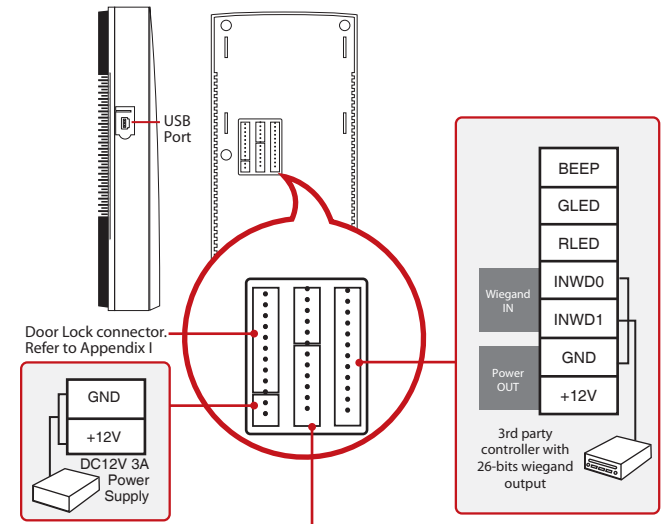
- After determining the height of the terminal from the ground level and have made the relevant marks on the wall, drill the screws into the wall to hang the back plate.

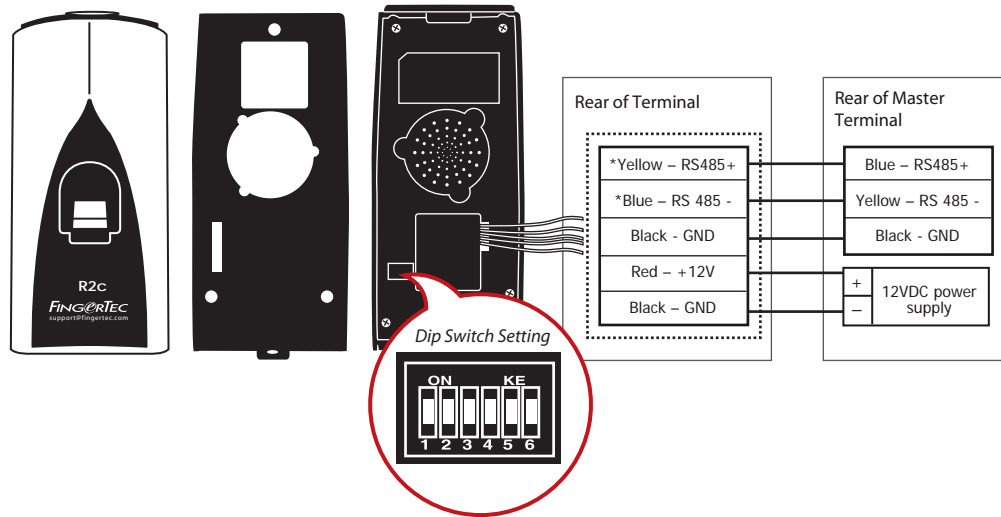
Refer to Appendix II for dimensions and measurements of installation.

Step 3 Wiring for Power Supply

The power input ports for these models are located at the rear of the terminals. There is no adapter plug supplied with the models, instead you need to source for power cable (red and black cables) to connect the power from the terminal to the AdapTec.

R2



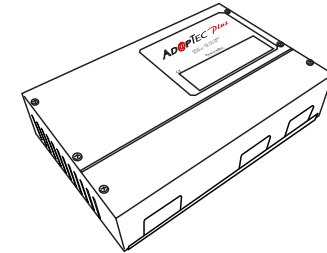
**Note:**

1. The R2c will only work with R2 (FEM 565) or H2i master terminals.
2. The R2c can share the 12VDC power supply with the master terminal.
3. It is recommended to use RS485 connection cables with a shielded twisted pair to achieve an optimum speed of data transfer.
4. Do not adjust the dip switch unless you are connecting the R2c with the i-Hub controller. If your R2c is unable to send any fingerprint or card data to the master terminal, please check the dip switch. Make sure it is set to the default settings as highlighted.

Other Accessories

Note: All Accessories are offered at <http://accessory.fingertec.com>

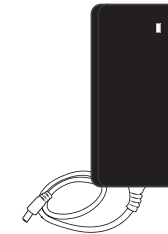
AdapTec



AdapTec Plus

The AdapTec Plus is a 12VDC power supply inclusive of a 110~240VAC switching linear power. The AdapTec supplies 12VDC power to the FingerTec terminal and door lock system as well as charges a 12VDC 7.0Ah backup battery simultaneously. During an event of a power failure, the back up battery automatically provides power to the terminal and maintains the door lock system. The AdapTec Plus also prevents a secured door from being opened if it has been tampered with.

Mini UPS



Mini UPS 12VDC

Mini UPS 12VDC is a mini portable backup power supply with 12VDC output, supplying 12VDC power for FingerTec Door Access & Time Attendance terminals.

Enclosures

FingerTec offers enclosures to protect the terminals from being meddled with by unauthorized persons.

Door Lock Accessories

FingerTec offers various door locks accessories to complement FingerTec door access product range.

Step 4 Setting Up Data Communications

(Skip this step if you are using USB flash disk to transfer data)

The data communication ports are positioned at the rear of the terminals, please refer to the diagrams shown on Step 3 to determine the wiring. Plug the communication jacks (TCP/IP, RS232 or RS485) to the corresponding ports.

TCP/IP – LAN Connection

For TCP/IP connection, plug the special RJ45 jack into the TCP/IP (LAN) Port of the terminal. Connect the other end (normal RJ45 jack) to the local area network hub or a PC. Configure the device ID, IP address, subnet mask and Gateway in the terminal (refer to the hardware user manual for details).

RS232 – Serial Port Connection

Plug the communication jack that is provided in the package to connect to the communication port of the terminal. Select wires with label RX, TX and GND, and connect the other end of these wires to a DB9 female connector. Configure the device ID and baudrate of the terminal (refer to the hardware user manual for details). Use the normal RS232 cable to plug into the RS232 port of the terminal.

RS485 – Serial Port Connection

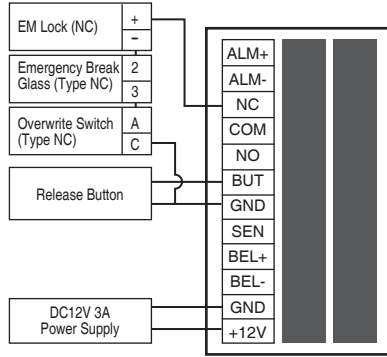
Plug the communication jack that is provided in the package to connect to the communication port of the terminal. Select wires with label RS485+, RS485- and GND, and connect the other end of these wires to an RS232/485 data converter. Connect the other end of the data converter to a DB9 female connector. Configure the device ID and baudrate of the terminal (refer to the hardware user manual for details).

Step 5 Finalizing the installation

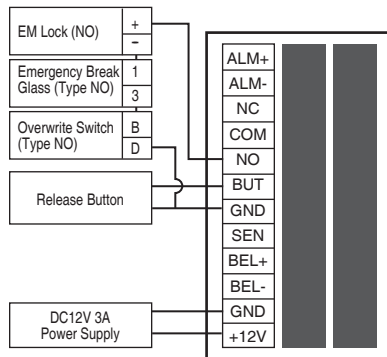
1. Check that all cable connections are done correctly.
2. Attach the terminal to the corresponding back plates and tighten the screws to secure the terminal to the wall
3. Switch on the power to the terminal.
4. Start using the terminal.

Appendix I Power Supply & Door Lock System Wiring Diagrams

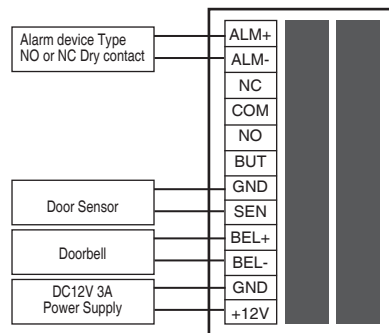
▶ Diagram 1 • Normally Close (NC)



▶ Diagram 2 • Normally Open (NO)



▶ Diagram 3 • Other Accessories



Door Lock Connectors

| WIRING PORT | USAGE |
|--------------|---|
| NO | Dry Contact (independent power supply for door lock) •NO type door lock (NO-COM) •NC type door lock (NC-COM) |
| NC | Power Contact (using power from terminal to power on door lock) •NO type door lock (NO-GND) •NC type door lock (NC-GND) |
| COM | Dry Contact (independent power supply for door lock) •NO type door lock (NO-COM) •NC type door lock (NC-COM) Power Contact (using power from terminal to power on door lock) •COM1 - +12V |
| SEN | Door Sensor (SEN-GND) |
| GND | Release button (BUT-GND) |
| BUT | |
| Bell+ | Door Bell |
| Bell- | |
| AL+ | Alarm System NO or NC Type – Check in Advance Options |
| AL- | |

The terminal will trigger the alarm output (NO or NC) for the following situations:

- Door forced open (A door sensor must first be installed)
- Door open time out (A door sensor must first be installed)
- Terminal has been illegally dismantled

Appendix II Terminal Dimensions and Measurements

