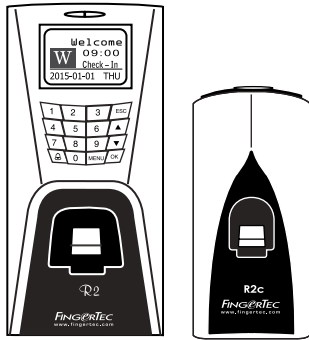


Installation Guide



R2 & R2c
Fingerprint Door Access & Time Attendance System

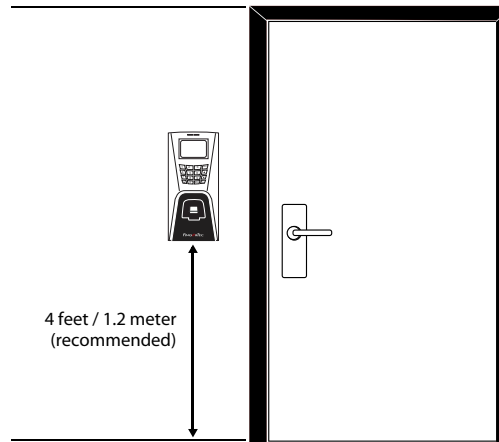
Step 1 Determine the Location and Positioning of the Installation

- 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 prone to high moisture or condensation levels in the air
- The recommended installation height of the terminal from the ground is 1.2 meter.

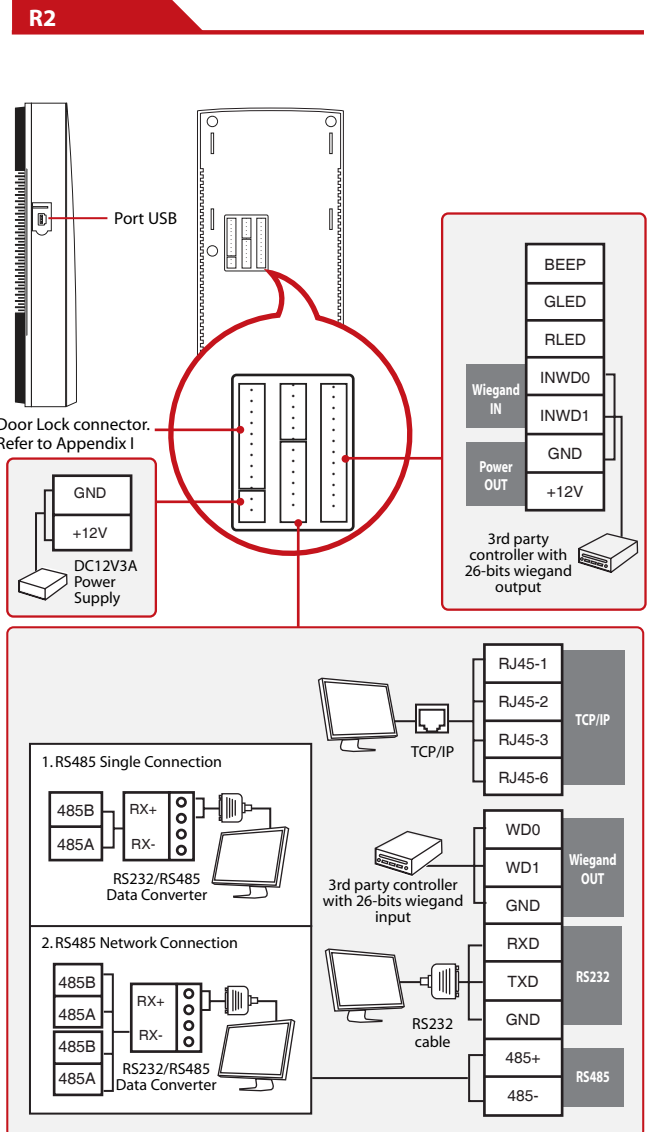
Step 2 Mounting Terminals

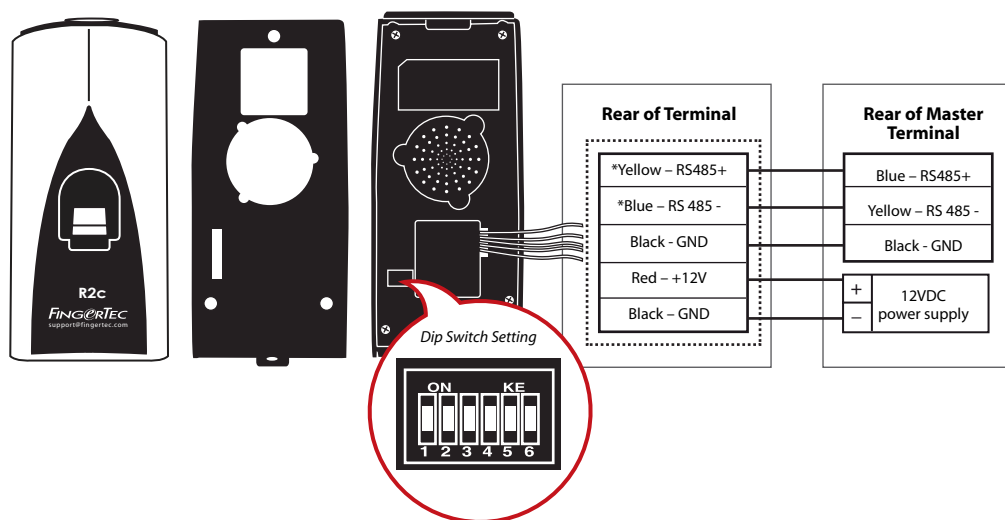


- After measuring the height accordingly and make relevant marking on the wall, drill the screws into the wall to secure the back plate.
- Attach the terminal to the back plate and tighten the screws. Refer to Appendix II for dimensions and measurements of installation.

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.



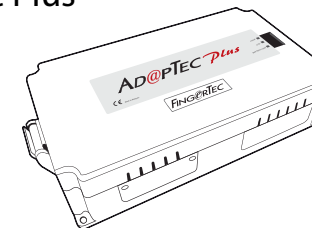
**Note:**

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

FingerTec offers complementing accessories which can be used with your terminals. These optional accessories are available at <http://accessory.fingertec.com>

AdapTec Plus



The AdapTec Plus is a 12VDC power supply inclusive of a 110~240VAC switching linear power. The AdapTec Plus 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.

Step 4 Setting Up Data Communication

(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 on the wall.
3. Switch on the power to the terminal.
4. Start using the terminal.



Mini UPS

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

Enclosures

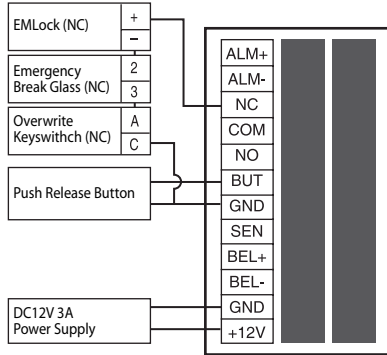
An acrylic-made enclosure that protects your terminal from the risk of meddling by unauthorized individuals. Our custom made enclosure are specially designed to fit your terminal perfectly with specific openings for fingerprint scanner and buttons. Our enclosure can be used to mitigate surrounding mild environmental hazards and help lengthen the lifespan of the terminals. However, do note that the enclosure is not dust-resistant and waterproof if subjected to extreme weather conditions.

Door Lock Accessories

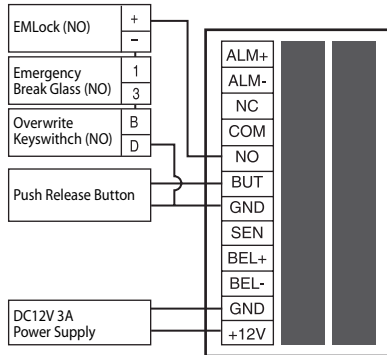
FingerTec offers various door locks accessories to complement FingerTec door access product range.

Appendix I Power Supply & Door Lock System Wiring Diagrams

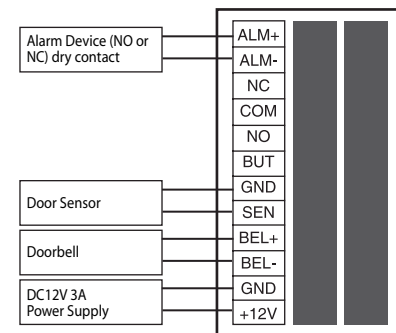
► Diagram 1 • Normally Close (NC)



► Diagram 2 • Normally Open (NO)



► Diagram 3 • Other Accessories



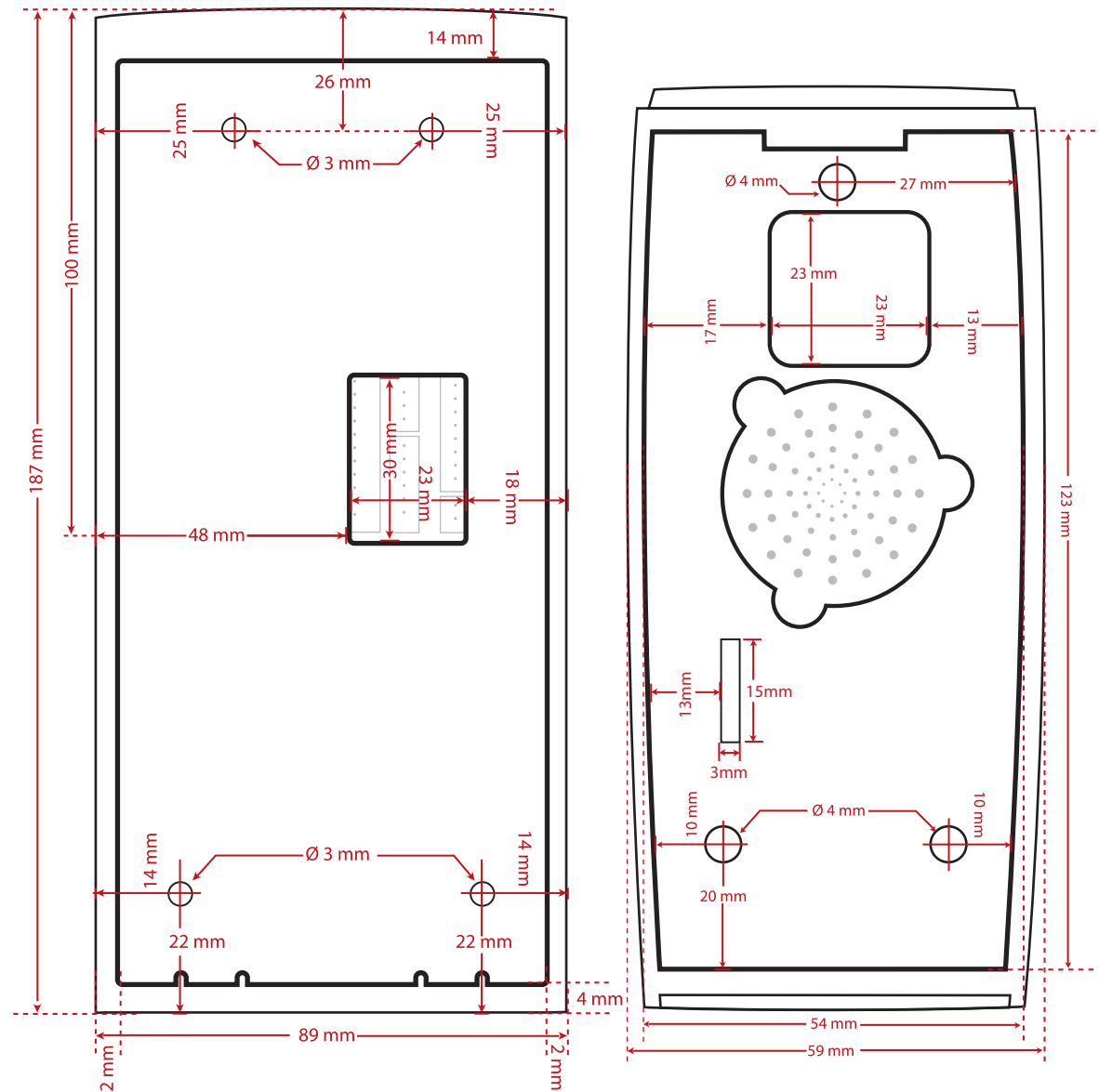
Door Lock Connectors

WIRING PORT	USAGE
NO	Dry Contact (independ-ent power supply for door lock) • NO type door lock (NO1-COM) • NC type door lock (NC1-COM)
NC	Power Contact (using power from terminal to power on door lock) • NO type door lock (NO1-GND) • NC type door lock (NC1-GND)
COM	Dry Contact (independ-ent power supply for door lock) • NO type door lock (NO1-COM) • NC type door lock (NC1-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 - NO2 - Check in Advance Options
AL-	

The terminal will trigger the alarm output (NO or NC) for the follow-ing situations:

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

Appendix II Terminal Dimensions and Measurements



Front View of Back Plate