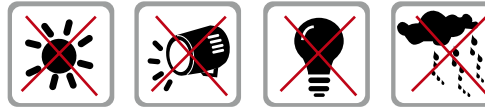# FING@RTEC

Installation Guide

i-Kiosk 100 Plus

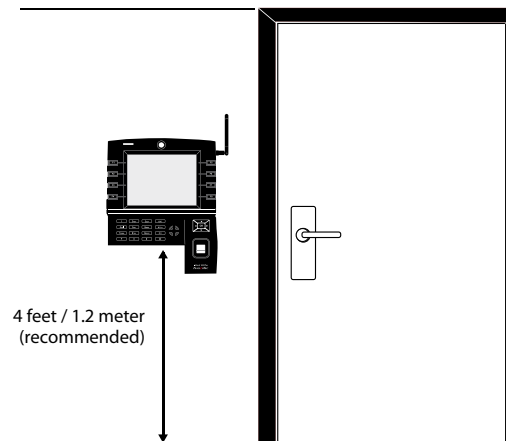Fingerprint Color Multimedia for Time Attendance & Door Access Control System

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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
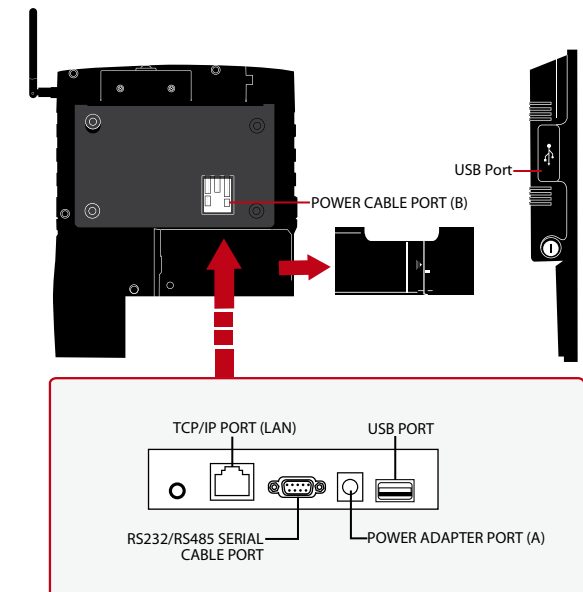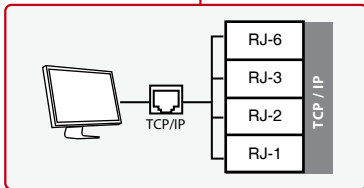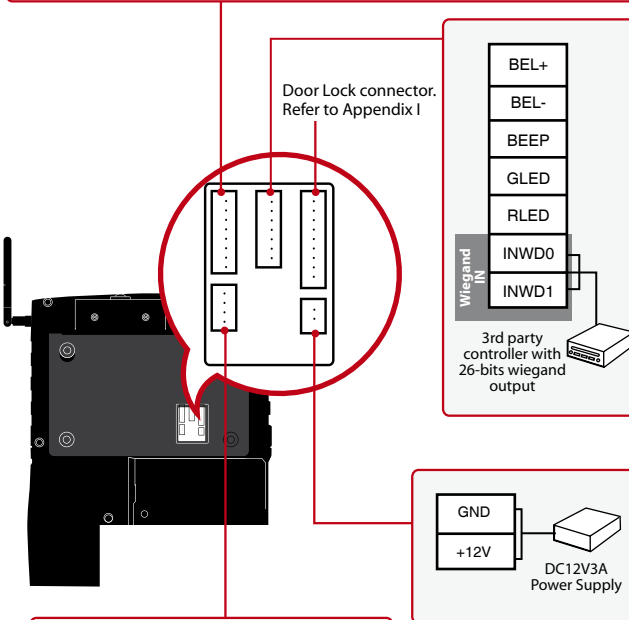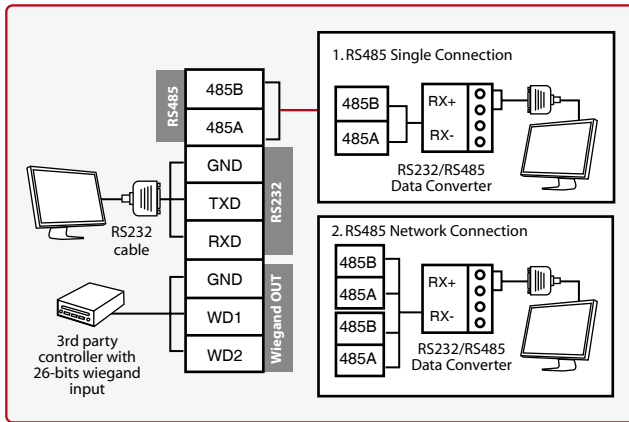### Mounting Terminals

4 feet / 1.2 meter (recommended)

- 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

i-Kiosk 100 Plus comes with a special key to unlock ports to power and door access as shown in the diagram marked B. There are two ways to connect the power to i-Kiosk 100 Plus.

1. Use the power adapter provided in the package and insert the power adapter to the port marked A in the diagram.

2. Use power cables (black and red) to connect to a linear power supply with specifications of 12VDC 3A. (Marked B)

USB Port

POWER CABLE PORT (B)

TCP/IP PORT (LAN) USB PORT

RS232/RS485 SERIAL CABLE PORT

POWER ADAPTER PORT (A)

Step 4
Setting Up Data Communication
(Skip this step if you are using USB flash disk to transfer data)

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).
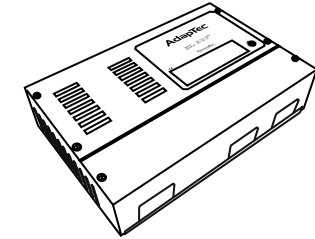
Step 5
Finalizing the Installation

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.

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

AdapTec AC

AdapTec AC
The AdapTec AC 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 AC also prevents a secured door from being opened if it has been tampered with.
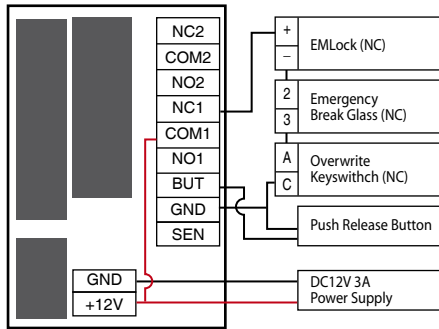
Enclosures
An acrylic-made enclosure that protects your terminal from the risk of meddling by unauthorized individuals. Our custom made enclosure are specially designed to fit your terminal perfectly with specific openings for fingerprint scanner and buttons. Our enclosure can be used to mitigate surrounding 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
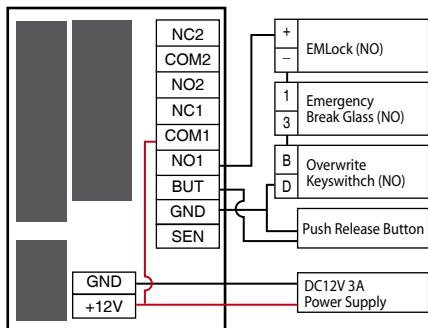## Power Supply & Door Lock System Wiring Diagrams
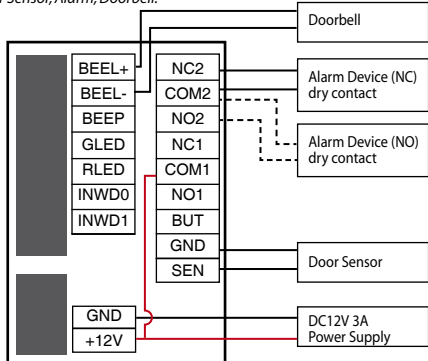
▶ Diagram 1 • Normally Close (NC)

NC2	
COM2	
NO2	+ / − EMLock (NC)
NC1	2 / 3 Emergency Break Glass (NC)
COM1	
NO1	A / C Overwrite Keyswithch (NC)
BUT	
GND	Push Release Button
SEN	
GND / +12V	DC12V 3A Power Supply

▶ Diagram 2 • Normally Open (NO)

NC2	
COM2	
NO2	+ / − EMLock (NO)
NC1	1 / 3 Emergency Break Glass (NO)
COM1	
NO1	B / D Overwrite Keyswithch (NO)
BUT	
GND	Push Release Button
SEN	
GND / +12V	DC12V 3A Power Supply

▶ Diagram 3 • Other Accessories

Door Sensor, Alarm, Doorbell.

BEEL+		Doorbell
BEEL-	NC2	
BEEP	COM2	Alarm Device (NC) dry contact
GLED	NO2	
RLED	NC1	Alarm Device (NO) dry contact
INWD0	COM1	
INWD1	NO1	
	BUT	
	GND	Door Sensor
	SEN	
GND / +12V		DC12V 3A Power Supply

Use either Type NO or Type NC alarm device.

Door Lock Connectors

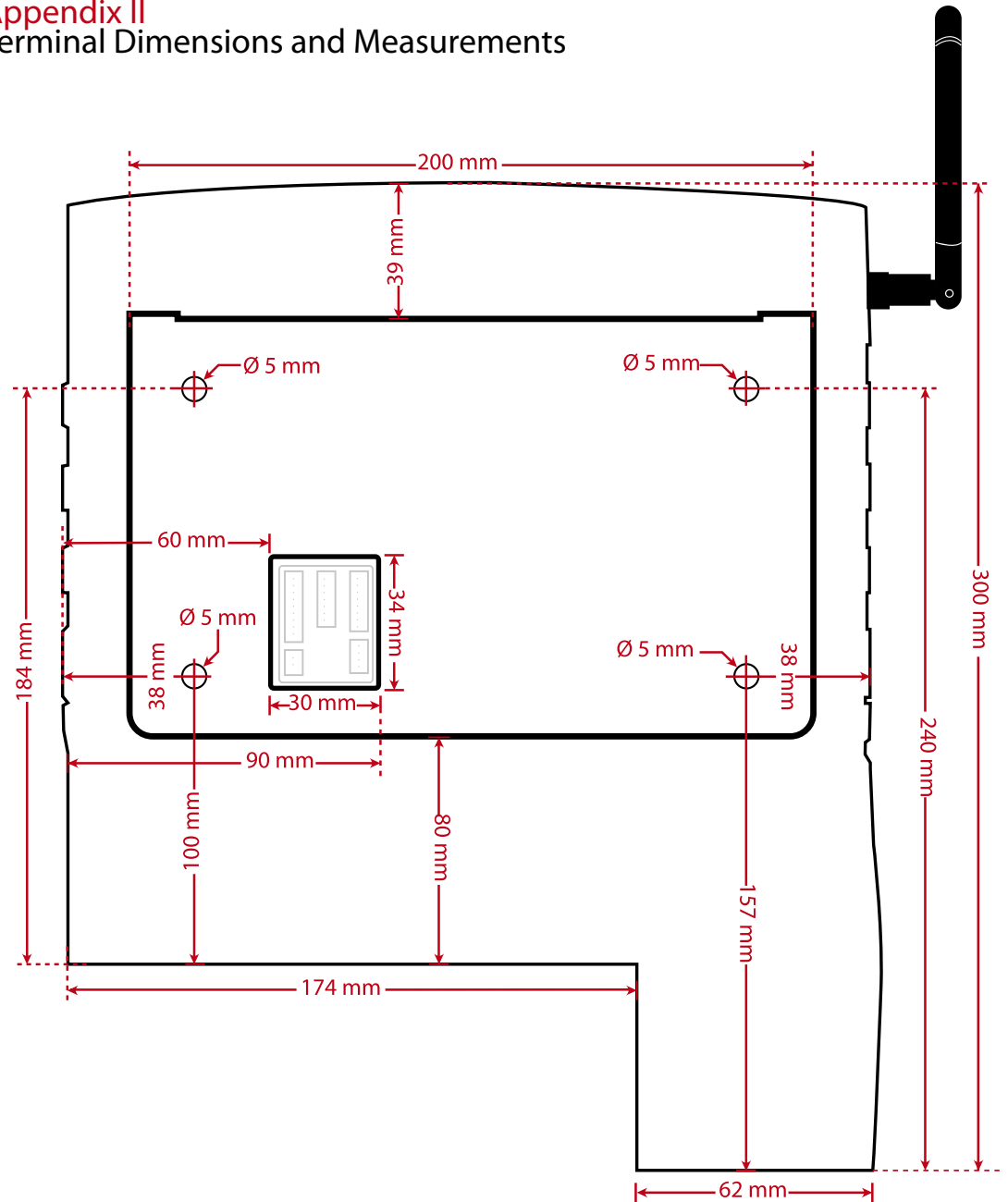| WIRING PORT	USAGE
NO1 / NC1	**Dry Contact** (independ-ent power supply for door lock) • NO type door lock (NO1-COM) • NC type door lock (NC1-COM) **Power Contact** (using power from terminal to power on door lock) • NO type door lock (NO-GND) • NC type door lock (NC-GND)
COM1	**Dry Contact** (independ-ent 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
NO2 / COM2 / NC2	**Alarm System** NO Type – NO2 – COM2 NC Type – NC2- COM2
SEN / GND / BUT	**Door Sensor** (SEN-GND) **Release button** (BUT-GND)
Bell+ / Bell-	**Door Bell**

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