Suprema Inc.

FCC ID : TKWFSM

-Operational description-

Product Contents
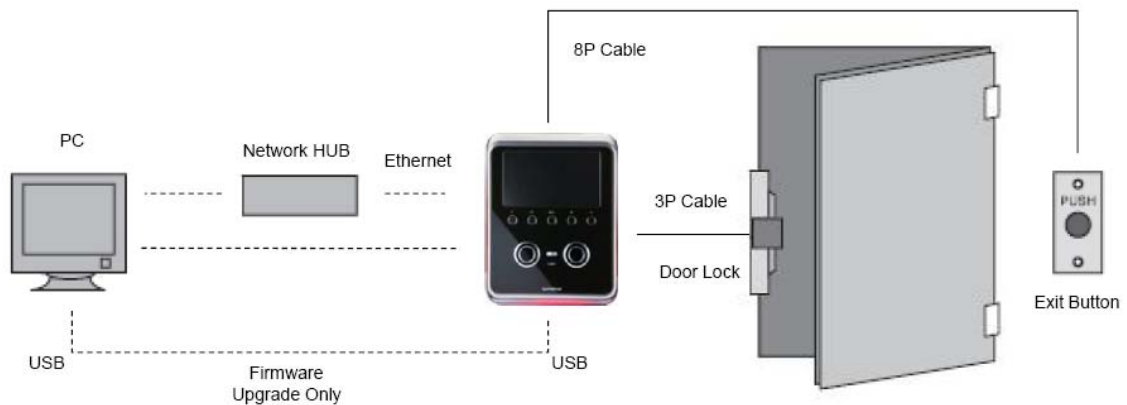
Basic Contents

Optional accessories

Terminal

Wall mounting metal bracket

Wall mounting screws and holders - 4 ea

Screw for fixing main body

USB fingerprint scanner for enrollment on PC

Cables

Software CD

Ferrite Core

Wireless LAN Access Point

Installation Example

PC

Network HUB

Ethernet

8P Cable

3P Cable

Door Lock

Exit Button

USB

Firmware Upgrade Only

USB
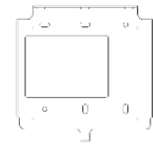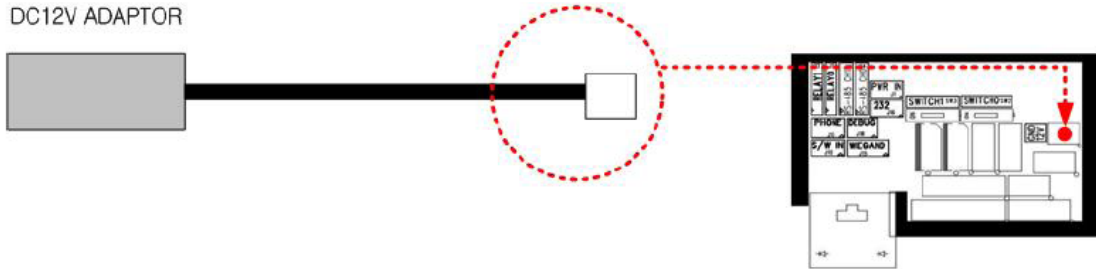
Power Connection
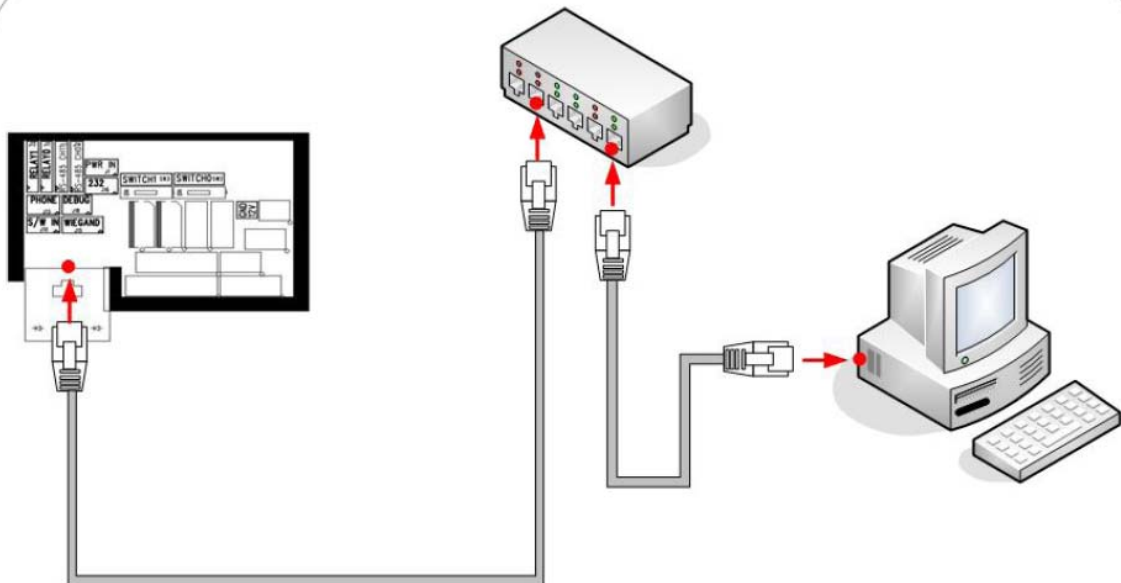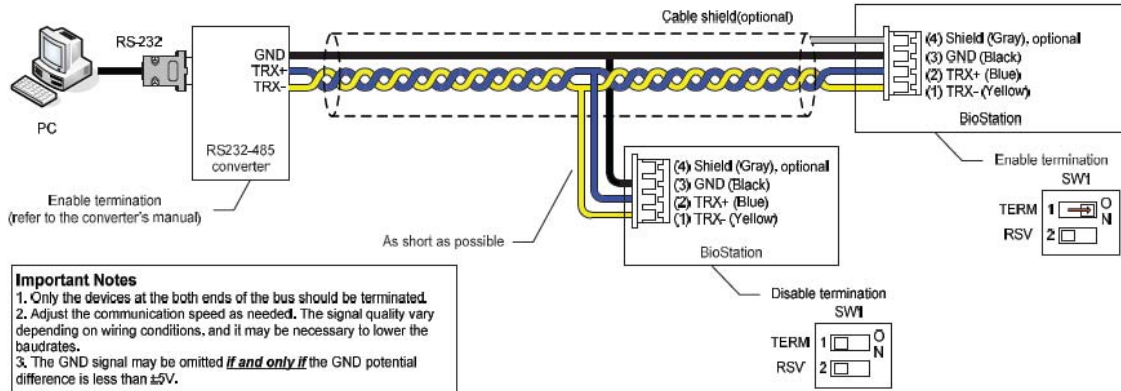
■ **Power Connection**

DC12V ADAPTOR

■ **Recommended**
- 12V ± 10%, at least 1500mA for BioStation T2 alone installation.
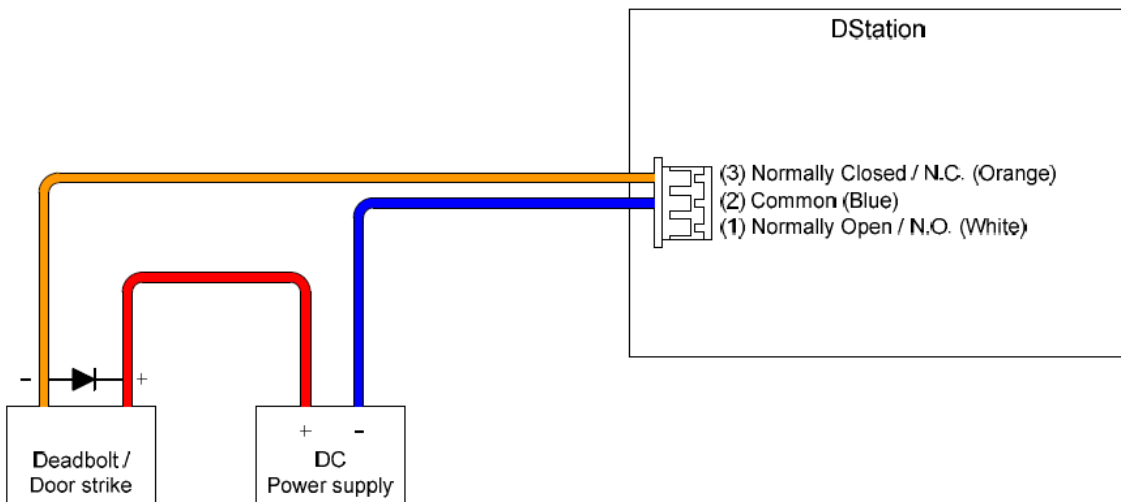- Comply with standard IEC/EN 60950-1
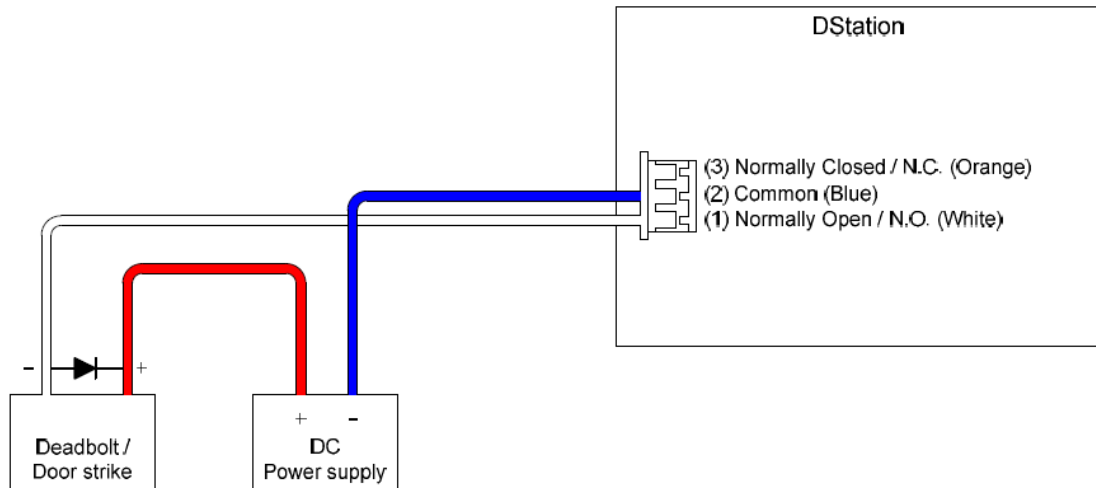
LAN Connection

RS485 Network Connection

Cable shield (optional)

RS-232

GND
TRX+
TRX-

PC

RS232-485
converter

Enable termination
(refer to the converter's manual)

As short as possible

(4) Shield (Gray), optional
(3) GND (Black)
(2) TRX+ (Blue)
(1) TRX- (Yellow)

BioStation

Disable termination
SW1

TERM 1
RSV   2

O
N

(4) Shield (Gray), optional
(3) GND (Black)
(2) TRX+ (Blue)
(1) TRX- (Yellow)

BioStation

Enable termination
SW1

TERM 1
RSV   2

O
N

Important Notes
1. Only the devices at the both ends of the bus should be terminated.
2. Adjust the communication speed as needed. The signal quality vary depending on wiring conditions, and it may be necessary to lower the baudrates.
3. The GND signal may be omitted *if and only if* the GND potential difference is less than ±5V.

Relay Connection – Fail Safe Lock

DStation

(3) Normally Closed / N.C. (Orange)
(2) Common (Blue)
(1) Normally Open / N.O. (White)

Deadbolt /
Door strike

DC
Power supply

Relay Connection – Fail Secure Lock

DStation

(3) Normally Closed / N.C. (Orange)
(2) Common (Blue)
(1) Normally Open / N.O. (White)

Deadbolt /
Door strike

DC
Power supply

Relay Connection - Automatic Door

RTE Switch

Presence
Detector

DStation

(3) Normally Closed / N.C. (Orange)
(2) Common (Blue)
(1) Normally Open / N.O. (White)

Automatic
Door

Door
Controller
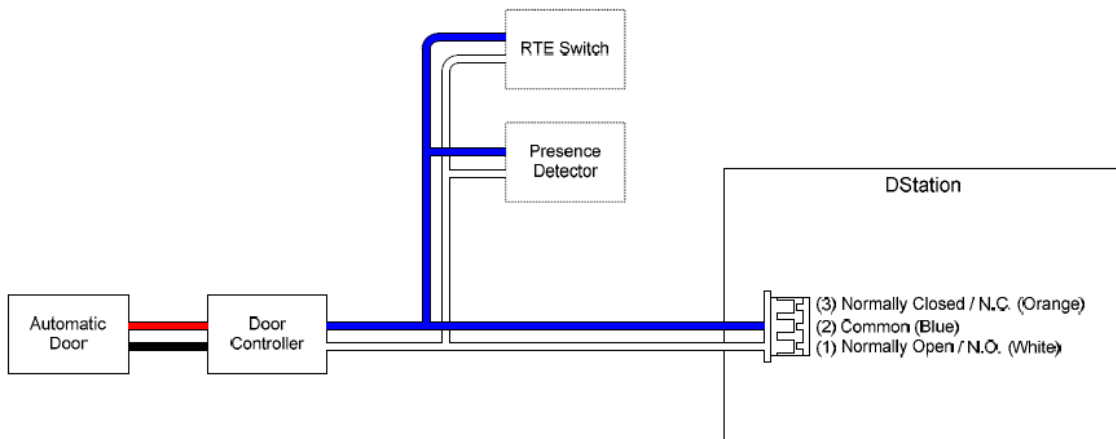
TTL Input Port Connection – RTE Switches

Request To Exit #1

Request To Exit #1

Request To Exit #1

Request To Exit #1

Cable shield(optional)

DStation

(8) SHELD_GND
(7) GND
(6) TTL_IN3
(5) TTL IN2
(2) SHELD_GND
(3) GND
(2) TTL IN1
(1) TTL IN0
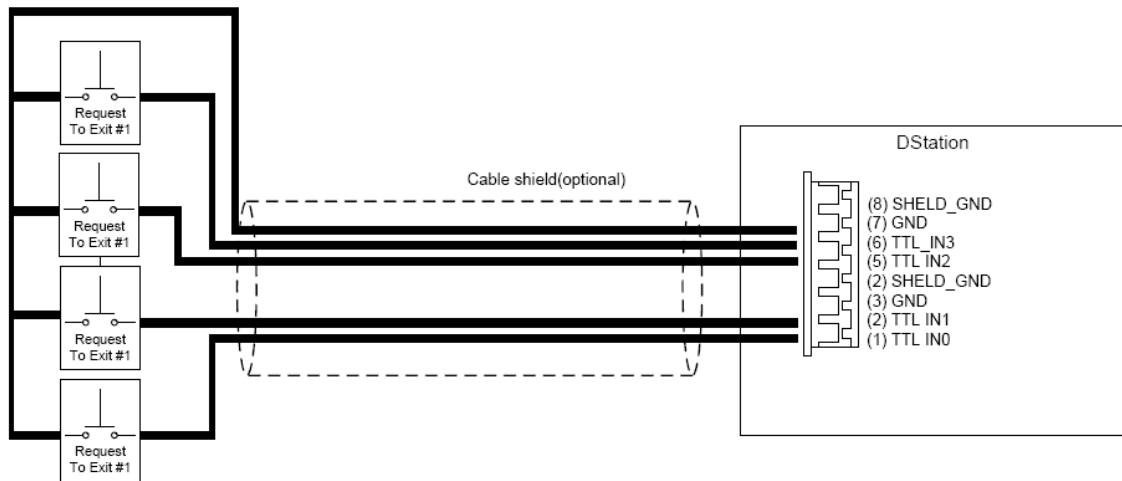
Wiegand Input Connection – External reader

Wiegand reader

GND
Wiegand Input, Data 1
Wiegand Input, Data 0

Cable shield(optional)

GND
Wiegand Data 1
Wiegand Data 0

DStation

(4) SHIELD_GND
(3) GND
(2) Wiegand D 1
(1) Wiegand D 0