

# EP.MINI WIRING GUIDE

Version: 1.01

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## Notes:

See <http://www.entrypass.net/> for updates, revisions, and download the latest installation manual

There are currently 2 version of EntryPass Platform1 Access Control System available for different card number system

1) EntryPass Platform1 Access Control System (6 Digit Card Number System) cater for 6 digit card number installation

2) EntryPass Platform1 Access Control System (10 Digit Card Number System) cater for 10 digit card number installation

For EntryPass Platform1 Access Control System to work correctly, both control panel and software **MUST** be using the same card number system

This software installation manual might be updated without prior notice

Please refer to separate EntryPass Platform1 User Manual for detail operation help. The Official EntryPass Platform1 User Manual can be downloaded from our website under "Download" section



# BEFORE YOU BEGIN

## Technical Support

If you cannot find the answer to your question in this manual or in the Help files, we recommend you contact your system installer. Your installer is familiar with your system configuration and should be able to answer any of your questions.

Should you need additional information, please call our Technical Support Help desk, Monday to Friday 9:00 AM to 6:00 PM (GMT +8:00)

Method Details

Phone + 60 (3) - 8068 1929

Fax + 60 (3) - 8068 1922

Internet [www.entrypass.net](http://www.entrypass.net)

Email [support@entrypass.net](mailto:support@entrypass.net)



# Considerations Prior to Installation

## Preparing Your EntryPass Controllers

EntryPass controller contains numerous delicate electronic circuits and components which can become damaged as a result of electrostatic discharge (ESD). Thus, prior to installation, please follow the instruction below:

- Observe precautions while handling the circuit board assembly by using proper grounding straps and handling precautions at all
- Visually ensure no onboard parts is broken, damage or contains burn mark
- Do not turn on the power supply until you completed all wiring and external add on devices installations



### **CAUTION**

Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire. To prevent a risk of explosion do not pry the battery out with a metal or conductive tool.

### Instances of Non-Warranty

- Damage due to natural disaster, accident or human cause.
- Damage as a result of violating the conditions recommended in the user manual
- Damage due to improper installation
- Damage due to use of uncertified components
- Damage due to use exceeding the permitted parameters



# MINI Description



MINI Reader  
Keypad Display Unit



Encrypted Lock Control  
(ELC)



# MINI Reader Color Description



## MINI Reader Color Description

Red : +12V DC  
Black : GND / 0V  
Pink : Door Sensor  
Black : GND / 0V  
Blue : RTX  
Brown : + 5VDC  
White : Exit Reader D1  
Green : Exit Reader DO  
Orange : RCLK  
Yellow : RDAT  
Grey : RS485 C+  
Purple : RS485 C-

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Green : RS232 RX Separated  
White : RS232 TX Separated



## Encrypted Lock Control (ELC) Description

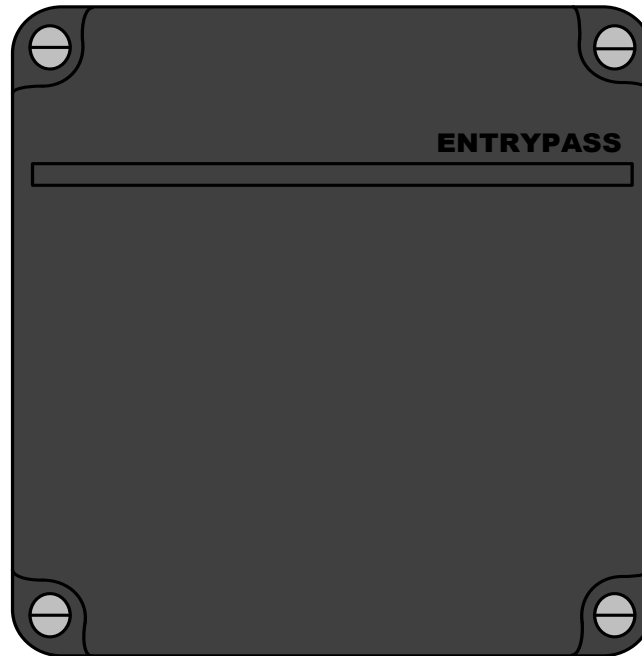
Red : +12V DC  
Black : GND / 0V  
Orange : RCLK  
Yellow : RDAT  
Blue : RTX  
Pink : Push Button  
Red : +12V DC  
Black : GND / 0V  
Grey / Yellow : NO1  
White / Blue : CM1  
White : NC1  
Brown : NO2  
Grey : CM2  
Green : NC2  
Purple : +12V DC Lock  
Purple : +12V DC Lock



# MINI Reader Keypad Display Unit



# Power Supply Unit Specification



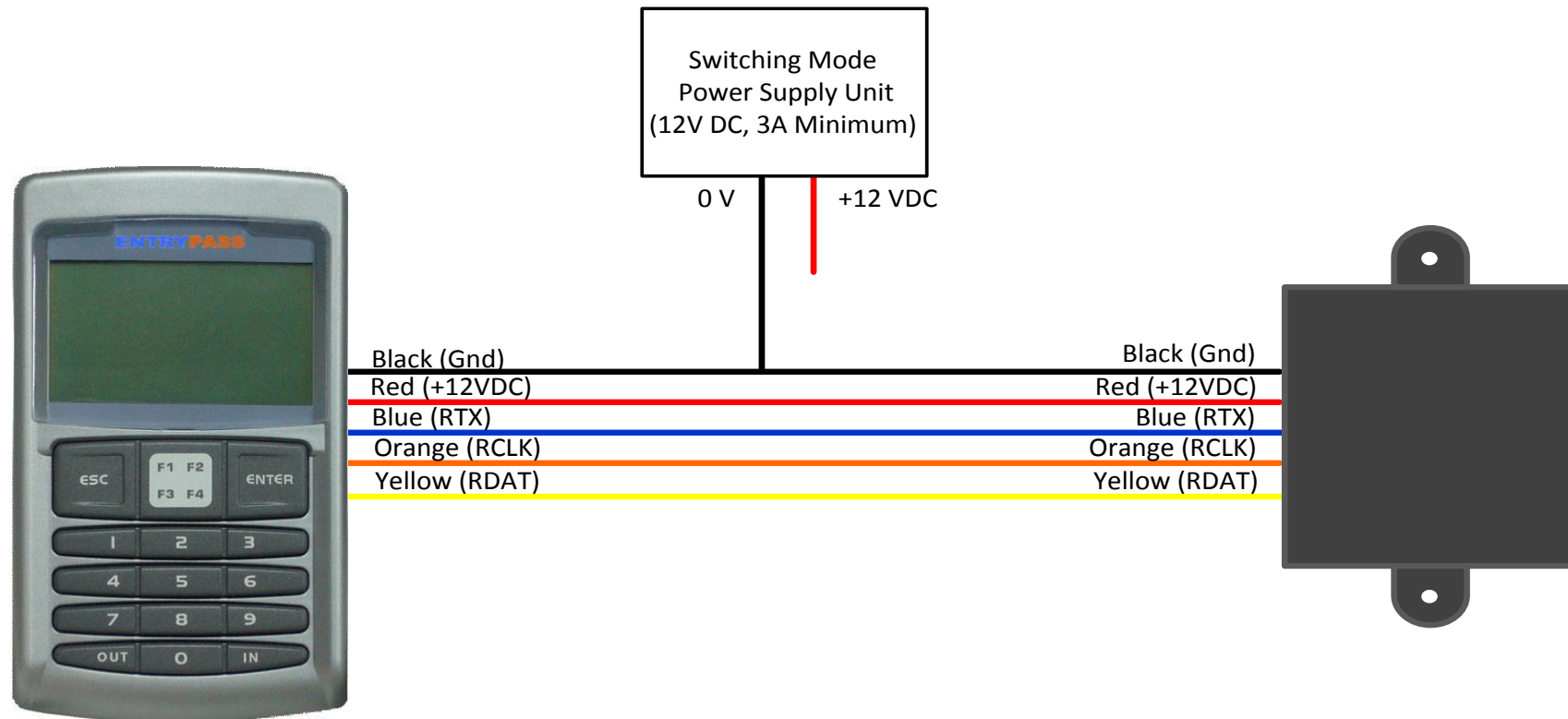
## Power Supply Unit Specification:

- Switching Power Supply
- 12V DC
- 3 Amp (Minimum)





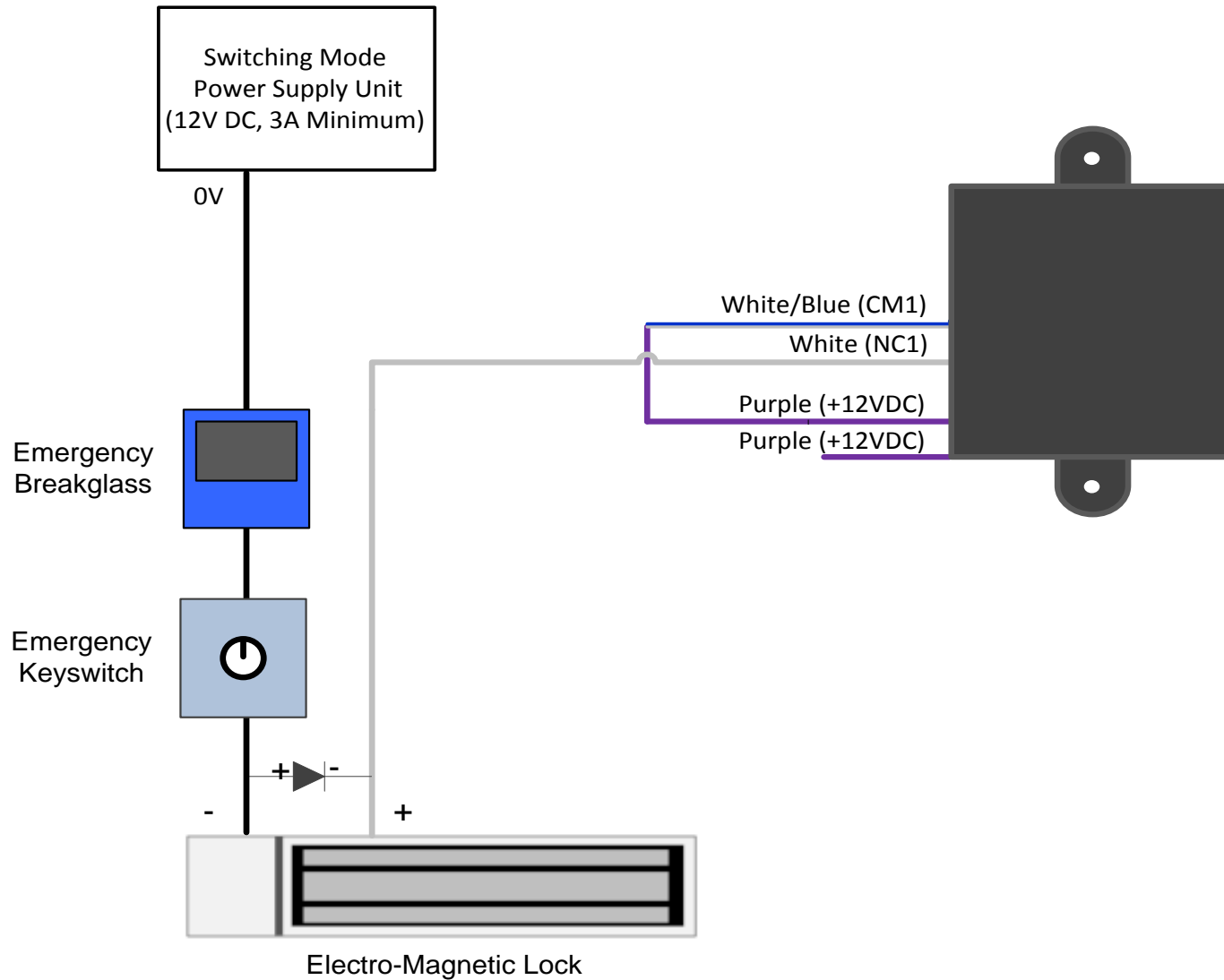
# Connecting MINI Reader to ELC



The distance from MINI keypad reader to ELC should not more than 10 meter



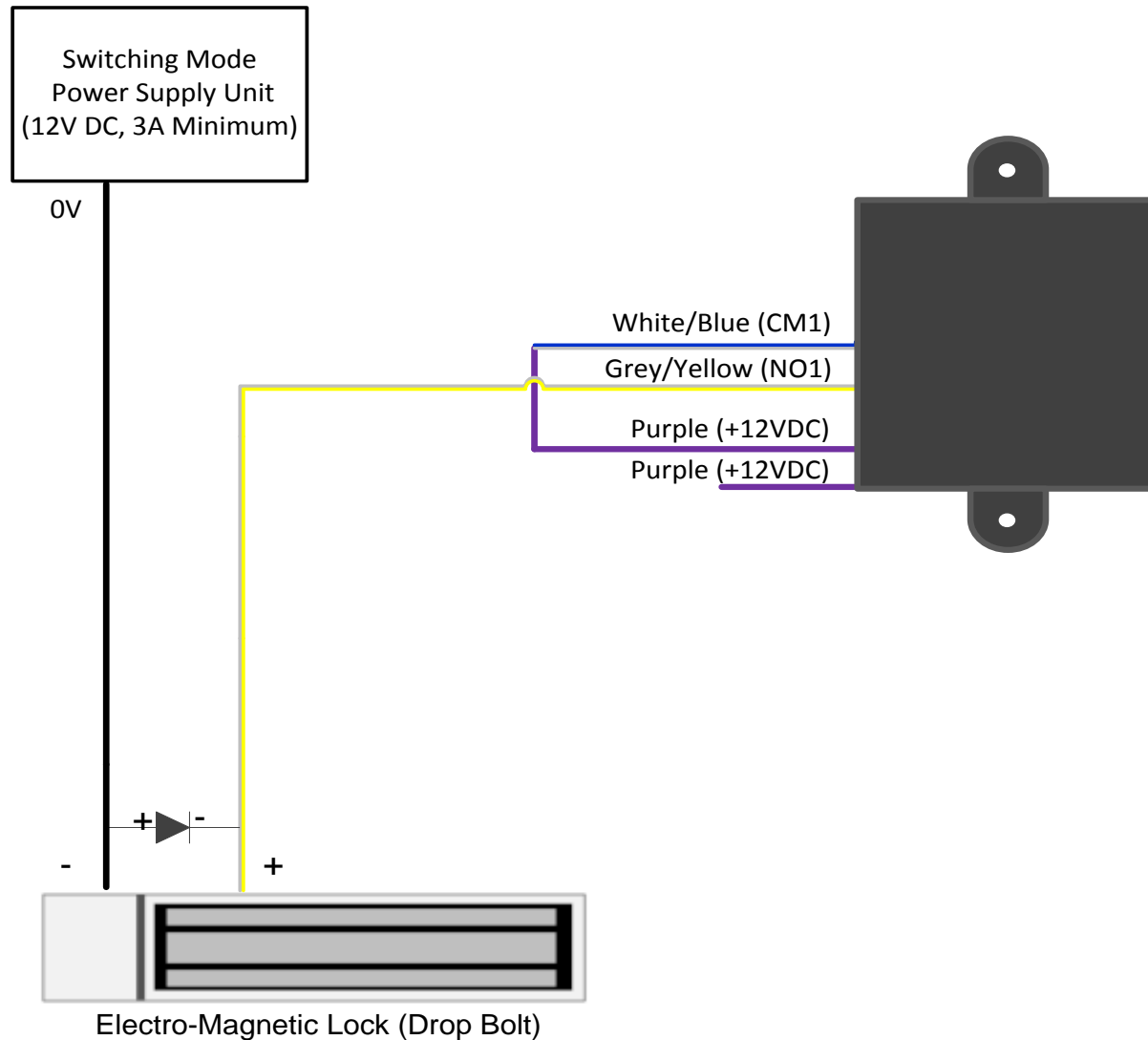
# Connecting the Lock (NC), Breakglass and Keyswitch to ELC



Diode(1N4002) must be installed at the locking devices in order to protect against back EMF



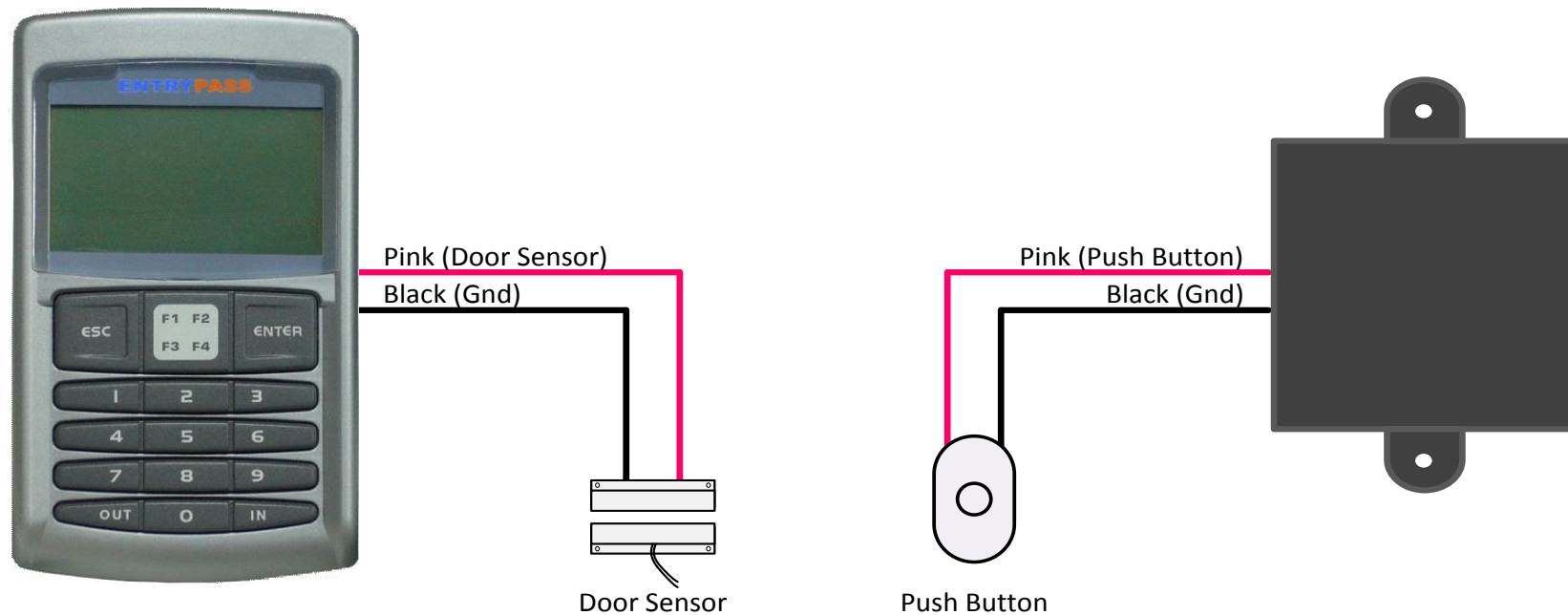
# Connecting the Lock (NO), Breakglass and Keyswitch to ELC



Diode(1N4002) must be installed at the locking devices in order to protect against back EMF



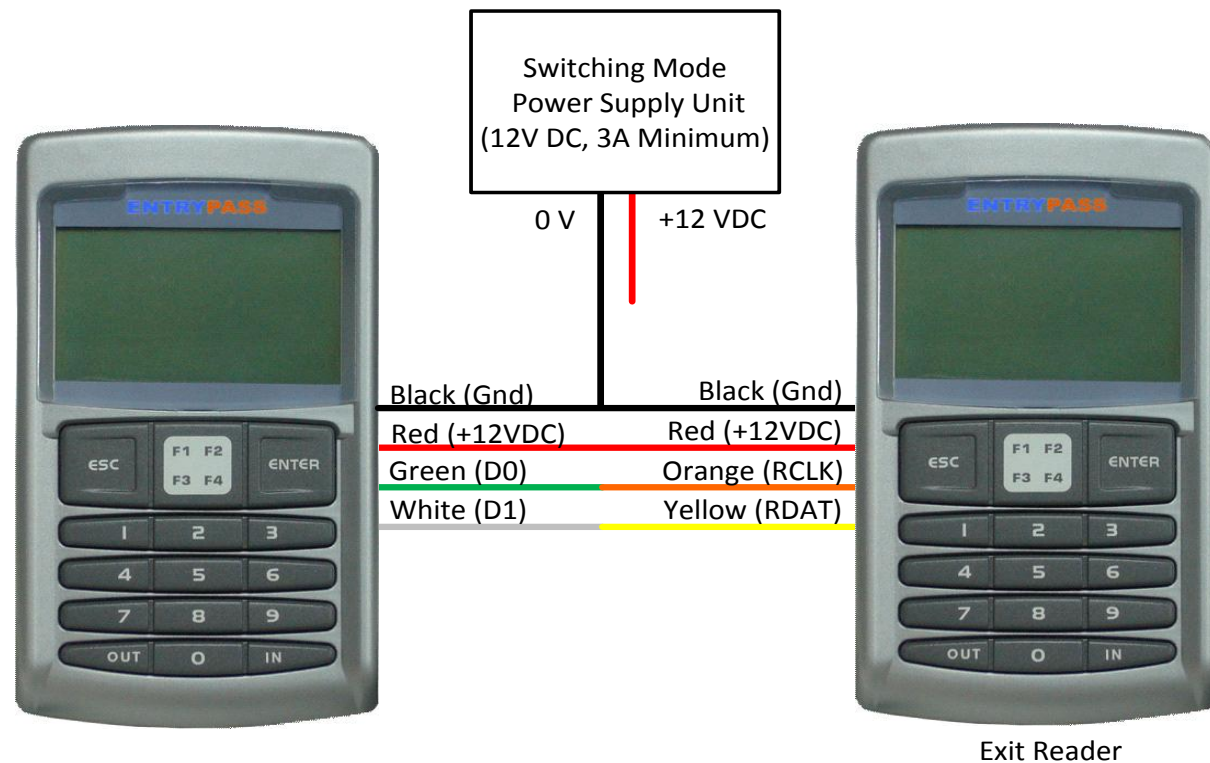
# Connecting the Door Sensor and Push Button



The distance from door sensor to MINI and from push button to ELC should not more than 30 meter



# Connecting the Exit Reader – MINI/N-MINI Reader as an Exit Reader



To configure **MINI** as a READER Mode, press:

- F1
- 123456
- 01 Enter
- 01 Enter
- 05 Enter
- 1 Enter
- ESC x3

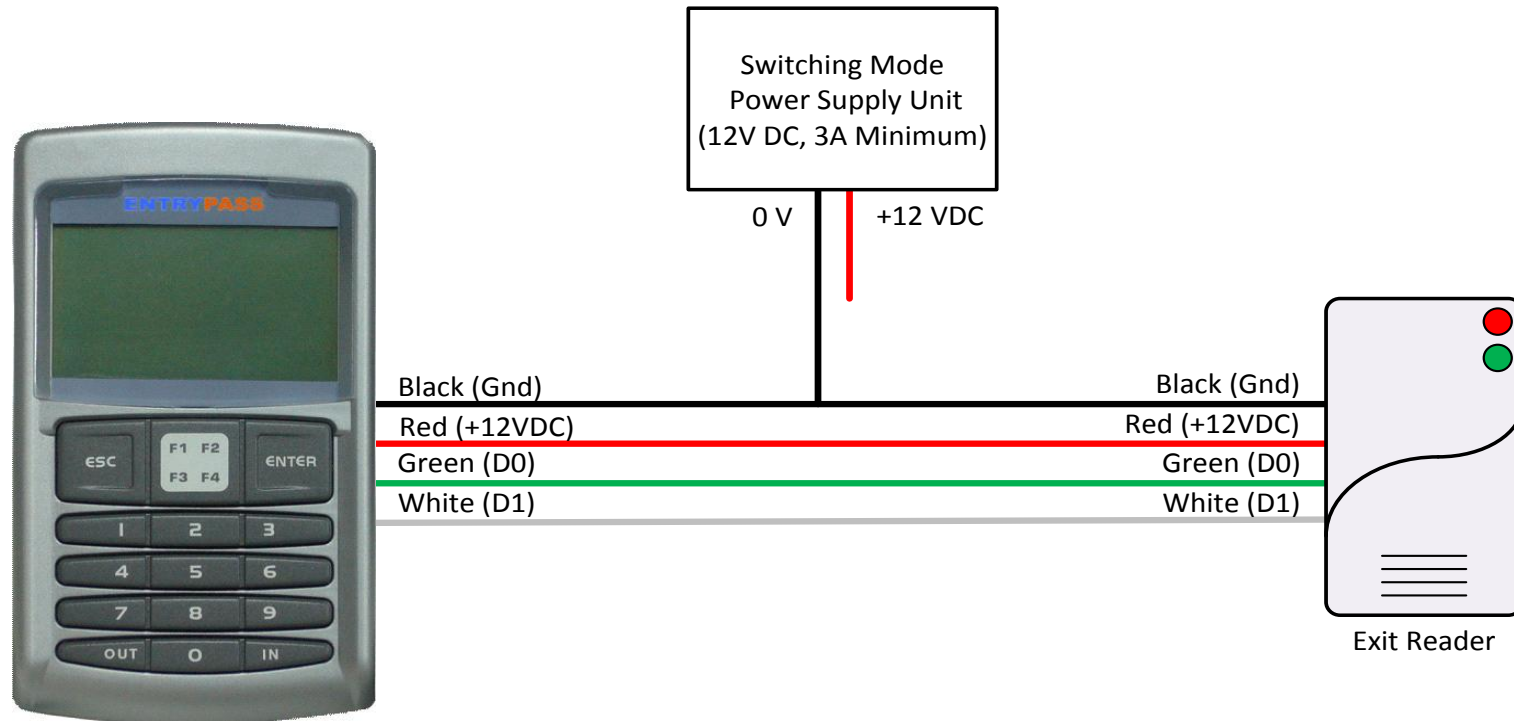
To configure **N-MINI** as a READER Mode, press:

- F1
- 123456
- 01 Enter
- 01 Enter
- 04 Enter
- 1 Enter
- ESC x3

To use MINI/N-MINI on exit reader side, you must enable the READER MODE function on the programming mode



# Connecting the Exit reader – 3<sup>rd</sup> Party Reader



The distance from MINI to exit reader should not more than 10 meter



# Configuring the MINI Unit Address



To configure **MINI** unit address (default: 00), press:

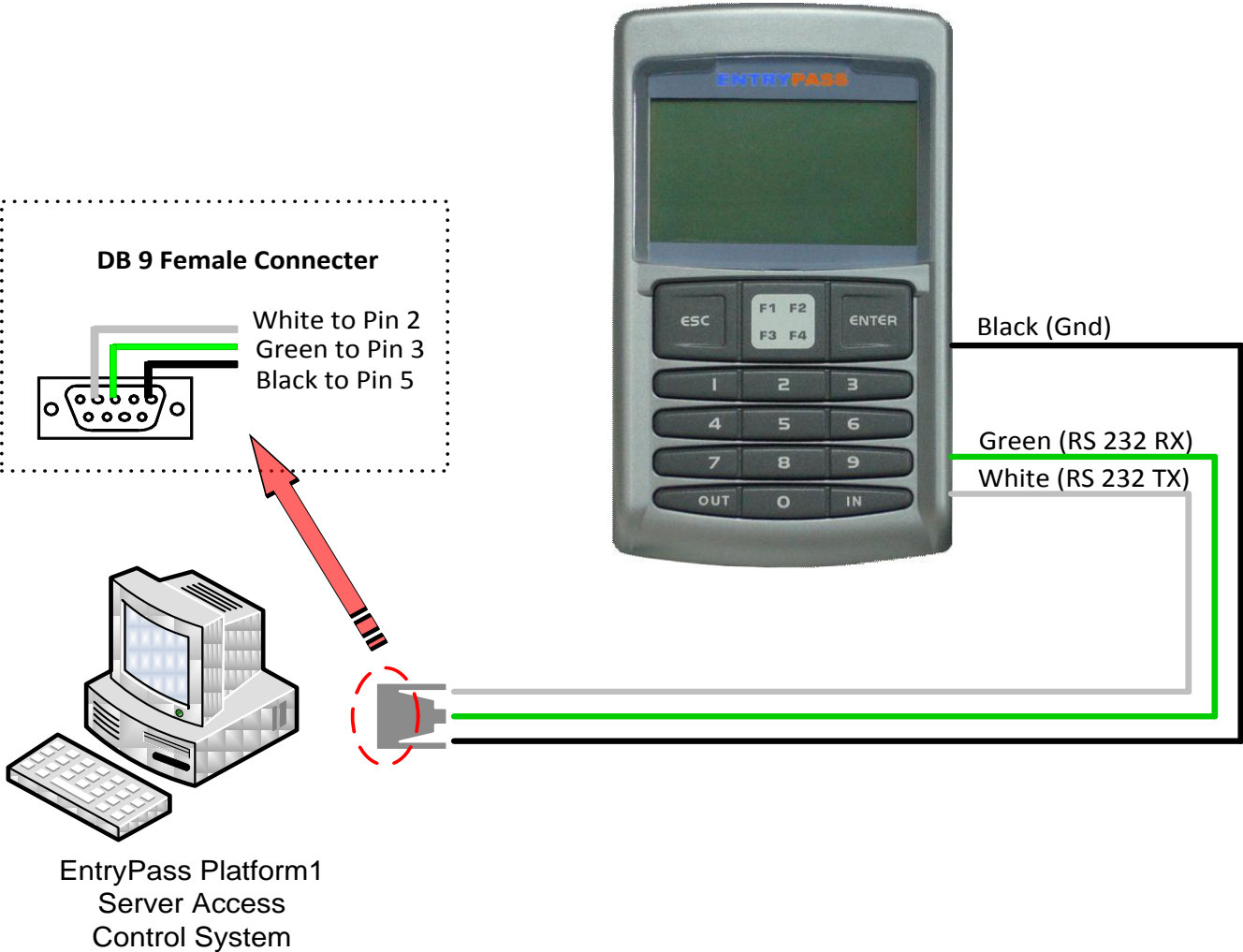
- F1
- 123456
- 01 Enter
- 01 Enter
- 04 Enter
- Key in new unit address (00 – 15)
- ESC x3

The unit address that you configure on the MINI controller will determine the controller address on the EntryPass Platform1 Access Control System software

Unit Address	Software address field
00	255.255.255.0
01	255.255.255.1
02	255.255.255.2
03	255.255.255.3
04	255.255.255.4
05	255.255.255.5
06	255.255.255.6
07	255.255.255.7
08	255.255.255.8
09	255.255.255.9
10	255.255.255.10
11	255.255.255.11
12	255.255.255.12
13	255.255.255.13
14	255.255.255.14
15	255.255.255.15



# Connecting to the PC via RS232 Mode

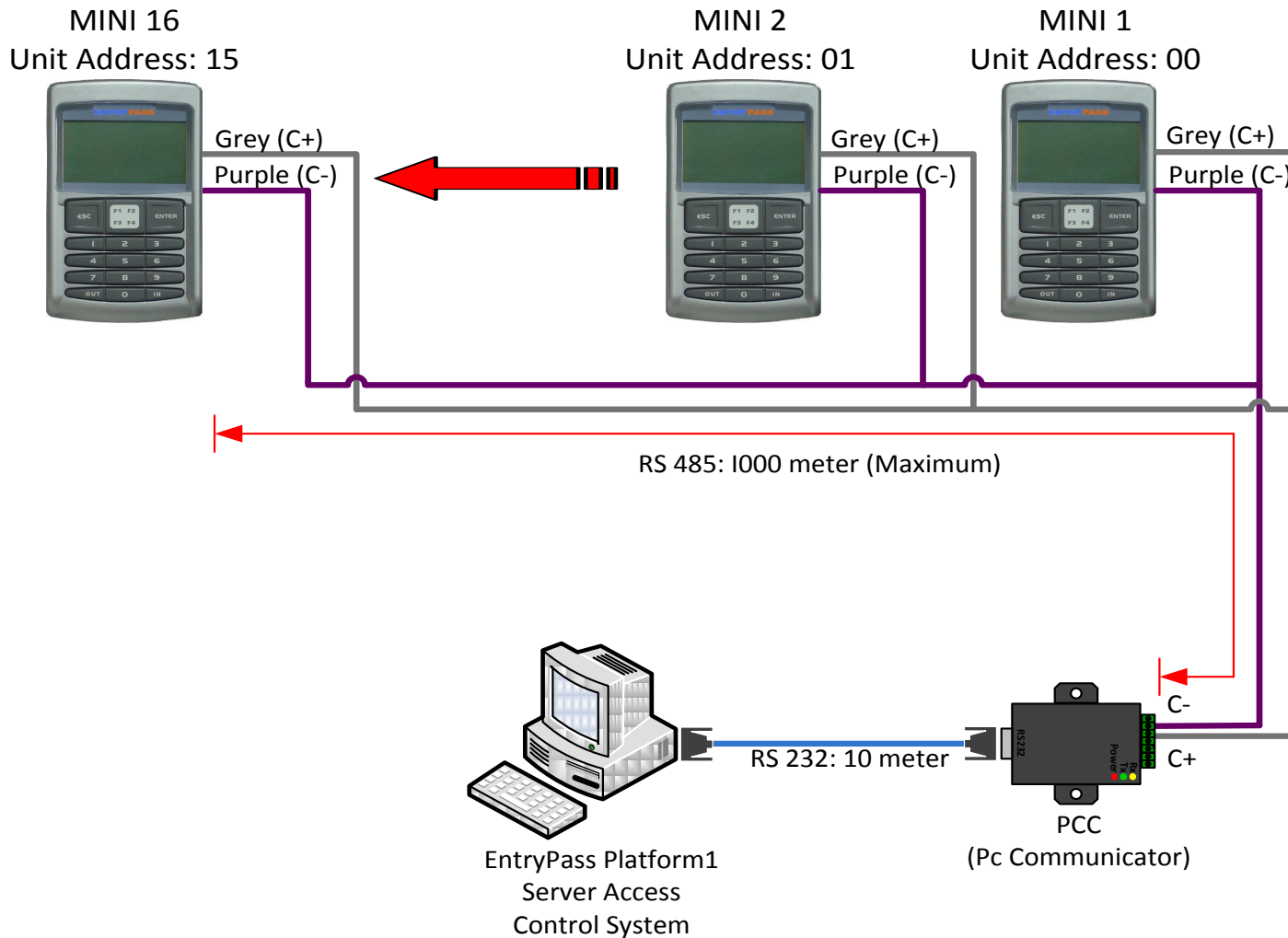


The distance from computer to MINI should not more than 10 meter





# Connecting to the PC via RS485 Mode



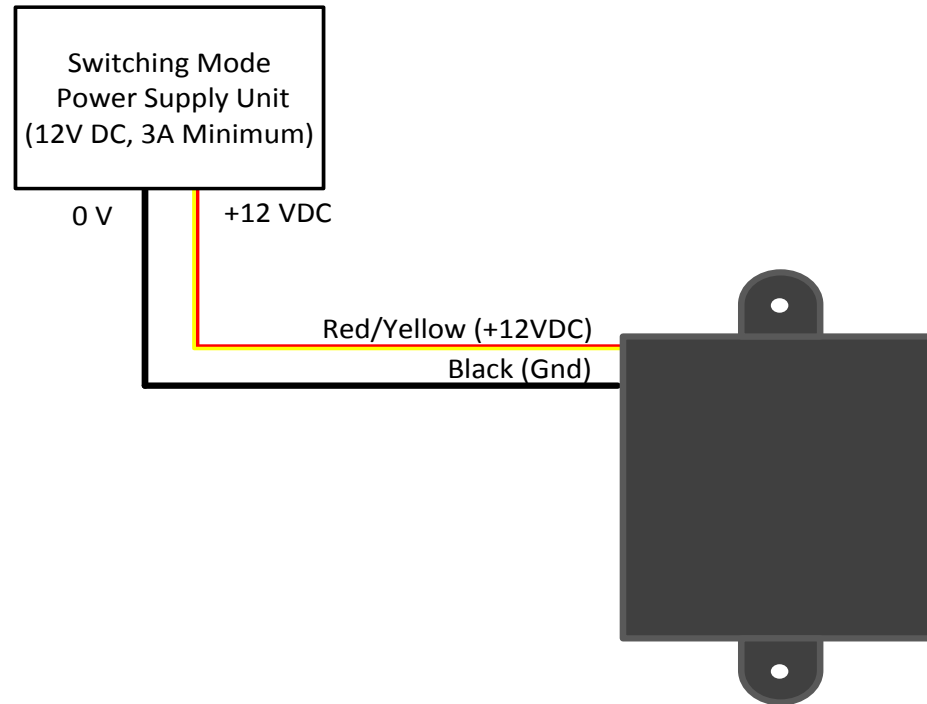
To configure **MINI** unit address (default: 00), press:

- F1
- 123456
- 01 Enter
- 01 Enter
- 04 Enter
- Key in new unit address (00 – 15)
- ESC x3

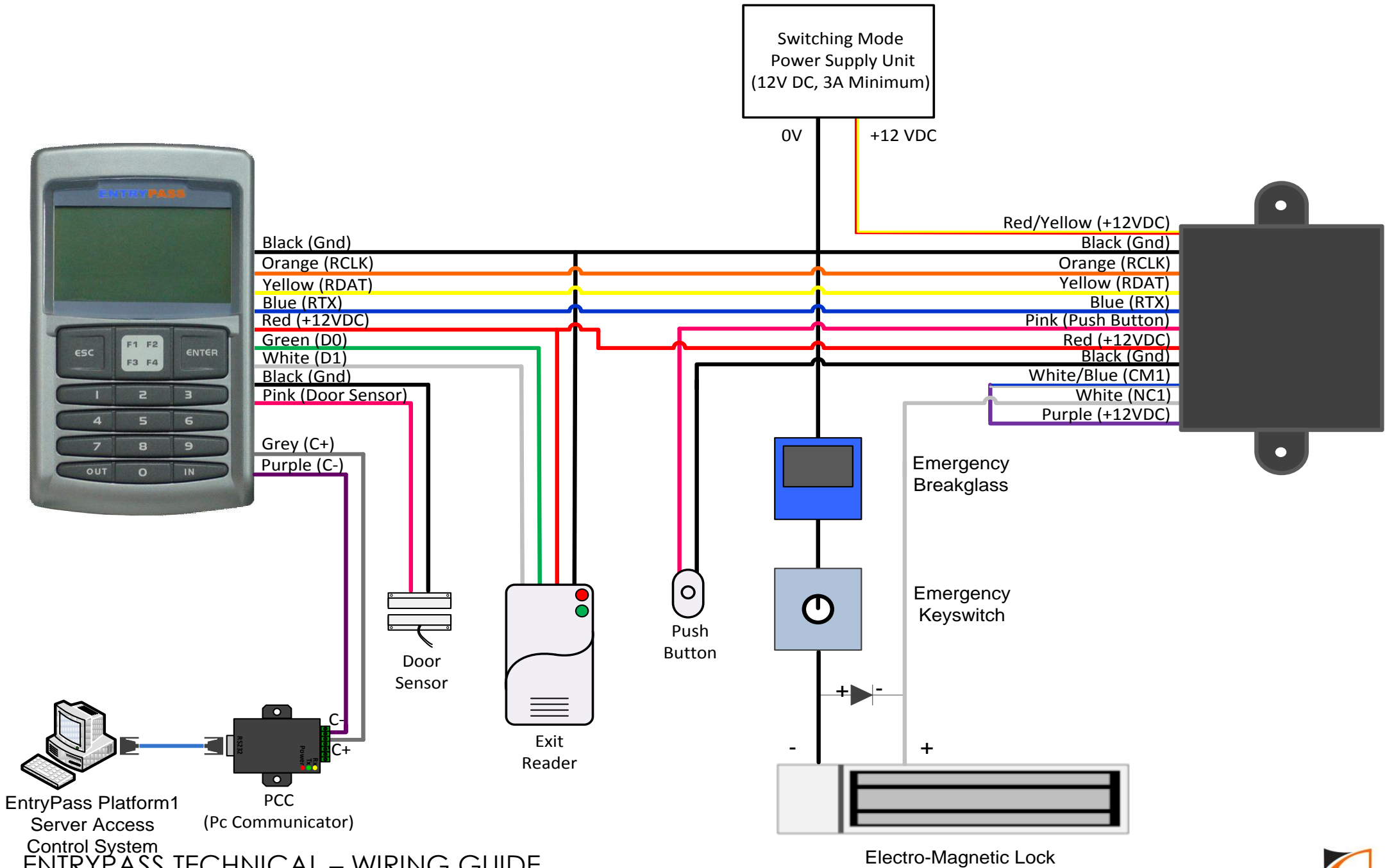
When the implementation consists of more than 1 MINI to be connected to the PC using the same bus/comport, the unit address for each MINI must be unique. Only a total of 16 controllers can be connected to each bus/comport.



# Connecting to Power Supply Unit



# Complete Overview



EntryPass Platform1  
Server Access

PCC  
(Pc Communicator)

Control System  
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# Before Connecting to the EntryPass Platform1 Access Control System

Before you begin to connect to the EntryPass Platform1 Access Control System, please make sure all the wiring connection is correct. On the MINI keypad, please make sure the following setting has been done:

## Format Memory

Advisable to perform format memory for the first time you turn on the power

## Unit Address

To configure the MINI unit address if there is more than one MINI controller connected to the PC communicator



# MINI (6 digit firmware) Programming Mode

## To enter programming mode, press:

- F1
- 123456 (default admin pin)

### Admin Pin

- Enter programming mode
- 01 Enter
- 01 Enter
- 01 Enter
- Key in new admin pin (6 digits)
- ESC X3

### Normal Pin (View Only)

- Enter programming mode
- 01 Enter
- 01 Enter
- 02 Enter
- Key in new normal pin (6 digits)
- ESC X3

### Unit Address

- Enter programming mode
- 01 Enter
- 01 Enter
- 04 Enter
- Key in the new unit address (00 - 15 sets)
- ESC X3

### Reader Mode

- Enter programming mode
- 01 Enter
- 01 Enter
- 05 Enter
- 1 Enter (Press 1 to set it ON or press 0 to set it OFF)
- ESC X3

### Security Mode

- Enter programming mode
- 01 Enter
- 02 Enter
- 02 Enter
- 0 Enter (Press 1 to set it ON or press 0 to set it OFF)
- ESC X3

### Door Pin 1

- Enter programming mode
- 01 Enter
- 02 Enter
- 06 Enter
- Key in the new door pin (6 digits)
- 09 Enter
- 01
- ESC X3



# MINI (6 digit firmware) Programming Mode

## Door Pin 2

- Enter programming mode
- 01 Enter
- 02 Enter
- 07 Enter
- Key in the new door pin (6 digits)
- 10 Enter
- 01
- ESC X3

## Door Pin 3

- Enter programming mode
- 01 Enter
- 02 Enter
- 08 Enter
- Key in the new door pin (6 digits)
- 11 Enter
- 01
- ESC X3

## Door Pin 1 Tz

- Enter programming mode
- 01 Enter
- 02 Enter
- 09 Enter
- Key in the new door pin time zone
- ESC X3

## Door Pin 2 Tz

- Enter programming mode
- 01 Enter
- 02 Enter
- 10 Enter
- Key in the new door pin time zone
- ESC X3

## Door Pin 3 Tz

- Enter programming mode
- 01 Enter
- 02 Enter
- 11 Enter
- Key in the new door pin time zone
- ESC X3

## Auto Release Tz

- Enter programming mode
- 01 Enter
- 02 Enter
- 13 Enter
- Key in the new auto release time zone
- ESC X3



# MINI (6 digit firmware) Programming Mode

## Release Time

- Enter programming mode
- 01 Enter
- 02 Enter
- 14 Enter
- Key in the new release time (00 – 99)
- ESC X3

## Open Time

- Enter programming mode
- 01 Enter
- 02 Enter
- 15 Enter
- Key in the new open time (00 – 99)
- ESC X3

## Pin Trials

- Enter programming mode
- 01 Enter
- 02 Enter
- 16 Enter
- Key in the new pin trials (00 – 09)
- ESC X3

## Date Setting

- Enter programming mode
- 01 Enter
- 03 Enter
- Key in the new date (DDMMYY)
- ESC X2

## Time Setting

- Enter programming mode
- 01 Enter
- 04 Enter
- Key in the new time (HHMMSS)
- ESC X2

## Format Memory

- Enter programming mode
- 01 Enter
- 05 Enter
- 03 Enter
- When finish formatting, a beep sound will be heard
- ESC X2



# MINI (6 digit firmware) Programming Mode

## **Install Card**

- Enter programming mode
- 02 Enter
- 01 Enter
- 01 Enter
- Key in the card number (6 digits)
- ESC X3

## **Delete Card**

- Enter programming mode
- 02 Enter
- 01 Enter
- 02 Enter
- Key in the card number (6 digits)
- ESC X3

## **Quick Install**

- Enter programming mode
- 02 Enter
- 01 Enter
- 04 Enter
- Flash all the cards to be installed (card by card)
- ESC X4

## **Quick Delete**

- Enter programming mode
- 02 Enter
- 01 Enter
- 05 Enter
- Flash all the cards to be deleted (card by card)
- ESC X4

## **Total Card**

- Enter programming mode
- 02 Enter
- 01 Enter
- 09 Enter
- ESC X3

## **Info Menu**

- Enter programming mode
- 03 Enter
- ESC X2





# MINI (10 digit firmware) Programming Mode

## To enter programming mode, press:

- F1
- 123456 (default admin pin)

### Admin Pin

- Enter programming mode
- 01 Enter
- 01 Enter
- 01 Enter
- Key in new admin pin (6 digits)
- ESC X3

### Normal Pin (View Only)

- Enter programming mode
- 01 Enter
- 01 Enter
- 02 Enter
- Key in new normal pin (6 digits)
- ESC X3

### Unit Address

- Enter programming mode
- 01 Enter
- 01 Enter
- 04 Enter
- Key in the new unit address (00 - 15 sets)
- ESC X3

### Reader Mode

- Enter programming mode
- 01 Enter
- 01 Enter
- 05 Enter
- 1 Enter (Press 1 to set it ON or press 0 to set it OFF)
- ESC X3

### Security Mode

- Enter programming mode
- 01 Enter
- 02 Enter
- 02 Enter
- 0 Enter (Press 1 to set it ON or press 0 to set it OFF)
- ESC X3

### Door Pin 1

- Enter programming mode
- 01 Enter
- 02 Enter
- 03 Enter
- Key in the new door pin (6 digits)
- 06 Enter
- 01
- ESC X3



# MINI (10 digit firmware) Programming Mode

## **Door Pin 2**

- Enter programming mode
- 01 Enter
- 02 Enter
- 04 Enter
- Key in the new door pin (6 digits)
- 07 Enter
- 01
- ESC X3

## **Door Pin 3**

- Enter programming mode
- 01 Enter
- 02 Enter
- 05 Enter
- Key in the new door pin (6 digits)
- 08 Enter
- 01
- ESC X3

## **Door Pin 1 Tz**

- Enter programming mode
- 01 Enter
- 02 Enter
- 06 Enter
- Key in the new door pin time zone
- ESC X3

## **Door Pin 2 Tz**

- Enter programming mode
- 01 Enter
- 02 Enter
- 07 Enter
- Key in the new door pin time zone
- ESC X3

## **Door Pin 3 Tz**

- Enter programming mode
- 01 Enter
- 02 Enter
- 08 Enter
- Key in the new door pin time zone
- ESC X3

## **Auto Release Tz**

- Enter programming mode
- 01 Enter
- 02 Enter
- 10 Enter
- Key in the new auto release time zone
- ESC X3



# MINI (10 digit firmware) Programming Mode

## Release Time

- Enter programming mode
- 01 Enter
- 02 Enter
- 11 Enter
- Key in the new release time (00 – 99)
- ESC X3

## Open Time

- Enter programming mode
- 01 Enter
- 02 Enter
- 12 Enter
- Key in the new open time (00 – 99)
- ESC X3

## Pin Trials

- Enter programming mode
- 01 Enter
- 02 Enter
- 13 Enter
- Key in the new pin trials (00 – 09)
- ESC X3

## Date Setting

- Enter programming mode
- 01 Enter
- 03 Enter
- Key in the new date (DDMMYY)
- ESC X2

## Time Setting

- Enter programming mode
- 01 Enter
- 04 Enter
- Key in the new time (HHMMSS)
- ESC X2

## Format Memory

- Enter programming mode
- 01 Enter
- 05 Enter
- 03 Enter
- When finish formatting, a beep sound will be heard
- ESC X2



# MINI (10 digit firmware) Programming Mode

## **Install Card**

- Enter programming mode
- 02 Enter
- 01 Enter
- 01 Enter
- Key in the card number (6 digits)
- ESC X3

## **Delete Card**

- Enter programming mode
- 02 Enter
- 01 Enter
- 02 Enter
- Key in the card number (6 digits)
- ESC X3

## **Quick Install**

- Enter programming mode
- 02 Enter
- 01 Enter
- 04 Enter
- Flash all the cards to be installed (card by card)
- ESC X4

## **Quick Delete**

- Enter programming mode
- 02 Enter
- 01 Enter
- 05 Enter
- Flash all the cards to be deleted (card by card)
- ESC X4

## **Total Card**

- Enter programming mode
- 02 Enter
- 01 Enter
- 09 Enter
- ESC X3

## **Info Menu**

- Enter programming mode
- 03 Enter
- ESC X2



# Cabling Information

Communication	Data Signal	Max Distance	Description
MINI to ELC		10m (30 ft)	22 AWG, 3 Pairs, Shielded
Computer to PC Communicator	RS 232	10m (30 ft)	22 AWG, 2 Pairs, Shielded
PC Communicator to MINI	RS 485	1000m (3000 ft)	22 AWG, 2 Pairs, Shielded
MINI to exit reader	Wiegand	10m (30 ft)	22 AWG, 2 Pairs, Shielded
ELC to Electro-Magnetic Lock	Power	30m (100 ft)	18 AWG, 1 Pair
ELC to Push Button	Contact	30m (100 ft)	22AWG, 1 Pair
MINI to Door Sensor	Contact	30m (100 ft)	22AWG, 1 Pair

