

## Middle-range Readers

### User Manual



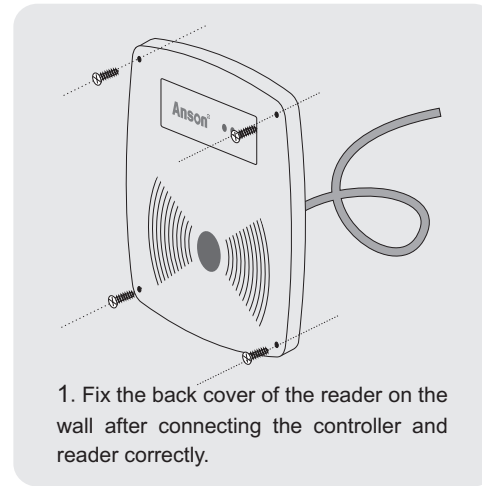
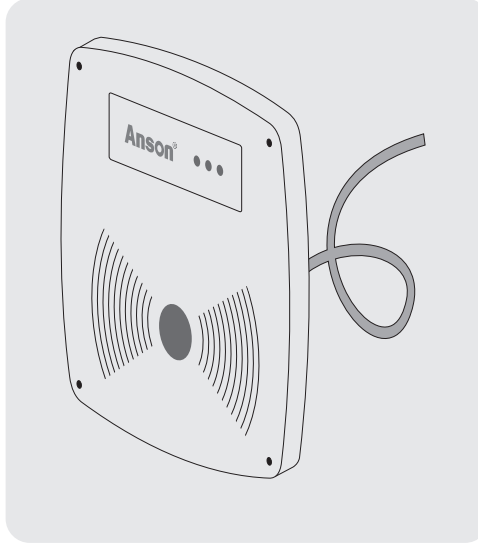
ASR-2650/2652

Read the manual before usage and keep for future reference.

<http://www.ansoncorp.com> CE FC IMA

### 1. Installation Procedure

**Note:** The reader shown below maybe is different from the model purchased since only one type of reader is demonstrated here. However, the general installation procedure is similar.



1. Fix the back cover of the reader on the wall after connecting the controller and reader correctly.

2. Fix the reader against the back cover. For some models, fasten the screw on the back cover.

### 2.Environment Parameters

| NO. | Items               | Technical Parameters |
|-----|---------------------|----------------------|
| 1   | Working Voltage     | DC9V~15V             |
| 2   | Working Current     | D≤120mA              |
| 3   | Working Temperature | 0℃~55℃               |
| 4   | Storage Temperature | -20℃~55℃             |
| 5   | Working Humidity    | 40%~90%RH            |
| 6   | Storage Humidity    | 20%~90%RH            |
| 7   | Working Pressure    | 86kPa~106kPa         |
| 8   | Storage Pressure    | 86kPa~106kPa         |

### 3.Reader Parameters

Radio Frequency: 125KHz

Card Mode: EM middle range card

Sensing Distance: 80~100 cm,

Reader Data Output: Wiegand26

Reading Speed: ≤0.1s

More than 100M Communication Distance

### 4.Wiring Nomination

| Wire No. | Color  | Function       |
|----------|--------|----------------|
| 1        | Red    | DC9V~15V       |
| 2        | Black  | GND            |
| 3        | Green  | DATA0(DATA/R+) |
| 4        | White  | DATA1(CLK/R-)  |
| 5        | Blue   | LED            |
| 6        | Yellow | BUZZER         |

### 5.Notes for Installation

- 5.1 8-core twisted pair copper wire (diameter ≥ 0.3 cm) is used to connect the controller and reader. Network wire can also be employed.
- 5.2 The reader is normally installed at the right side of the door (outside), with 1.4 m from the floor and 3-5 cm from the door frame, while the exit button inside with 1.4 m from the floor.
- 5.3 The reader should not be installed against

metal surface. In case this can not be avoided, either all the metal surface should be removed with only the fixing area remained; or an isolation material thicker than 10 cm or more should be placed between the reader and the metal surface.

- 5.4 The connection between reader and controller should be as shorter as possible since signal attenuation increases along with the length of the connection wire.
- 5.5 The red wire and black wire of the reader are connected to the positive and negative poles of the power respectively. Wrong connection or connection with excess voltage or current may damage the reader.

### 6.FAQ

What should I do:

- 6.1 When the data in the controller are incorrect or unstable during real-time monitoring?
  - ◇ Check whether the data transmission connections at DATA0 and DATA1 are correct.
  - ◇ Check whether the distance between the

controller and reader is longer than 60 meters (Wiegand 26). If so, shorten the distance between controller and reader or provide on-site power supply for the reader.

- 6.2 When the communication between computer and controller fails?
  - ◇ Check whether the power supply of controller is ok.
  - ◇ Check whether the transmission interface is consistent with the wiring interface.
  - ◇ Check whether the controller jumper setup is consistent with the practical communication mode.
  - ◇ Check whether the connection wire itself is ok.
- 6.3 When the electric lock fails to function?
  - ◇ Check whether the connections of reader, exit button and electric lock are correct.
  - ◇ Check the output of the relay. If there is output from the relay, then check the electric lock and its wiring; if there is no output from the relay, then check the reader and its wiring and also check the setup authentication is correct or not.

- 6.4 When the door can not be opened by reading the card after the power supply recovered?
  - ◇ Check whether the button battery on the control board is out of power.
  - ◇ Check whether the storage time of controller is different from that of the computer.
  - ◇ Try to switch on and then switch off all the relays on the control board.

### 7.Note

- 7.1 Confirm the electric voltage (DC12V) and differentiate positive anode and cathode of power supply
- 7.2 When external Power is used, make sure to share the power or use the same GND with controller.
- 7.3 When the distance between reader and controller is more than 50m, please use power line with at least 1.5 square cm Dia, or use several paralleling connected Network wires.