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ASIS technologies

R300 Reader

ASIS technologies R300 Reader User Guide

Contents

ASIS technologies

ASIS technologies R300 Reader

Wired to Webentra controller RS485(DEV1)

Color	Black	Red	White	Yellow
Description	Ground	12V+	RS485-	RS485+
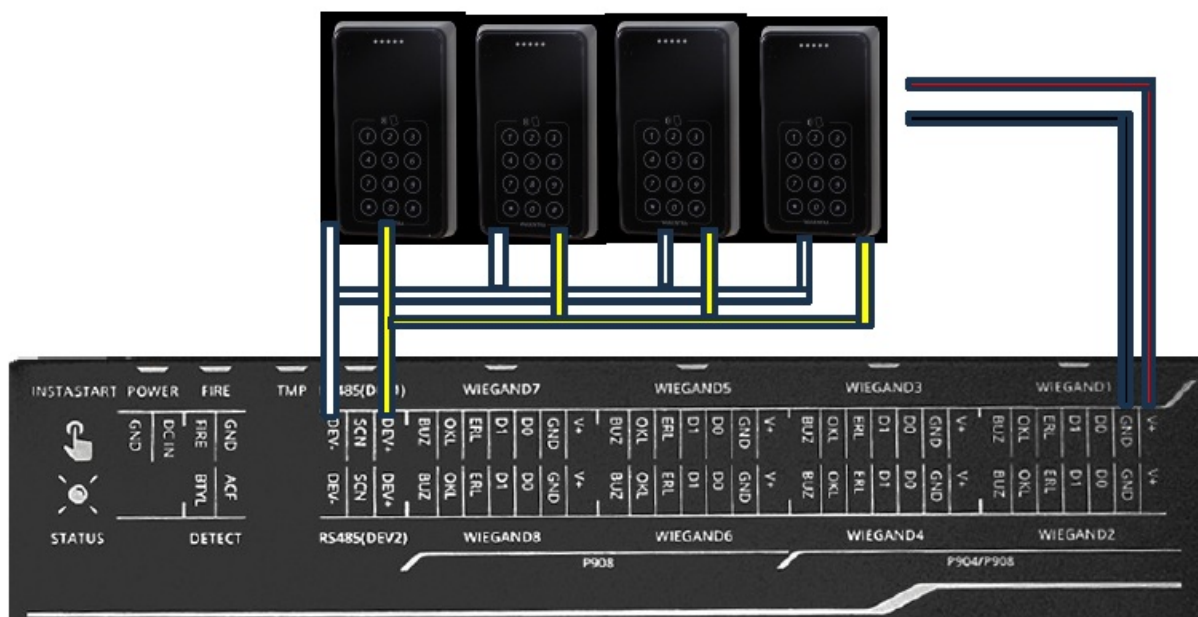
DIP Switch Setting

R300 reader has 8 way DIP switch with function as show in below table.

Bit	Label	Function in RS485
1	A0	Address bit 0
2	A1	Address bit 1
3	A2	Address bit 2
4	A3	Address bit 3
5	Mode RS485/ Wiegand	OFF – Wiegand, ON – RS485
6	8/4 Byte	OFF – 8 byte, ON – 4 byte
7	CSN/CAN	OFF – CSN, ON – CAN
8	TST	OFF – Run, ON – Testing

Reader address setting

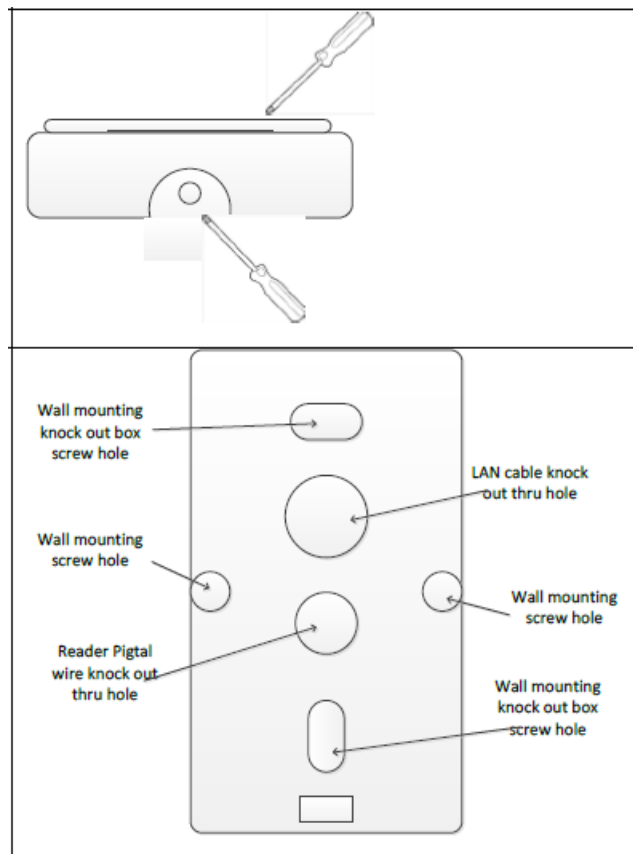| Reader number	Reader address	Bit 1	Bit 2	Bit3	Bit4	Bit5
Reader 1	80	0	0	0	0	1
Reader 2	81	1	0	0	0	1
Reader 3	82	0	1	0	0	1
Reader 4	83	1	1	0	0	1
Reader 5	84	0	0	1	0	1
Reader 6	85	1	0	1	0	1
Reader 7	86	0	1	1	0	1
Reader 8	87	1	1	1	0	1

Installation and Mounting Instruction

- Remove Bottom Screw

 Ply open the front cover using flat head screw driver remove the front of the unit.

  Remove the front of unit

- Mark out reader base (reader wire pigtail) and (wall mounting hole) drill hole on the wall for mounting reader.

Wall mounting knock out box screw hole

LAN cable knock out thru hole

Wall mounting screw hole

Wall mounting screw hole

Reader Pigtal wire knock out thru hole

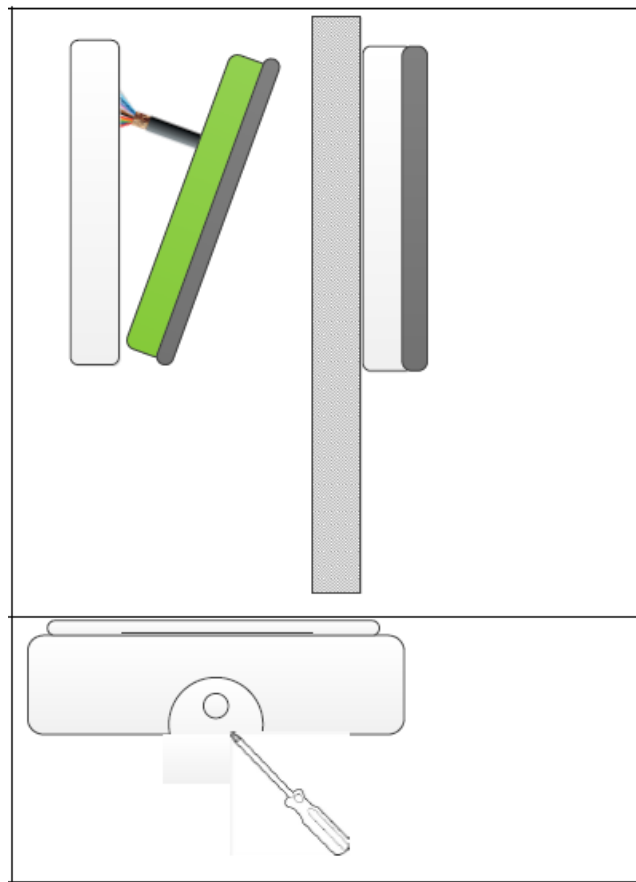Wall mounting knock out box screw hole

- Half tighten wall mount screw.

  Terminate reader pigtail cable to cable from controller. Tighten wall mount screw
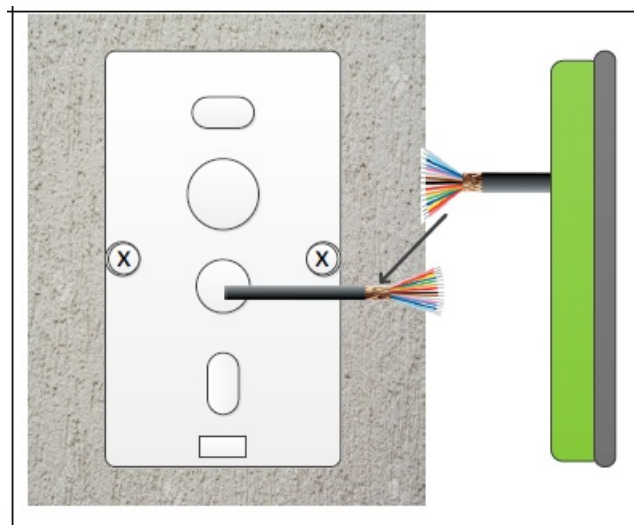
- Reinsert reader front to base by set the bottom. Align reader pigtail cable accordingly. Push to front top to snap into the base.
- Tighten bottom screw

Product Specification

Power Supply (Recommend)	Regulated linear power supply, +12VDC, 300mA
Operating Voltage Range	+9VDC – + 24VDC
Operating Current at +12VDC	85mA (average) – 185mA (peak)
Maximum Cable Distance	150meters (500feet) (base on Belden 9538 24AWG 0.6mm, 8 core cable foilshield) (for wiegand interface) (base on Belden 9534 24AWG 06.mm, 4 core cable foilshield) (for RS485 interface)
Read Range	2 to 4 cm (Read Range is dependent on local installation, card type)
Transmit Frequency	13.56MHz
LED	Tri Color – Red, Green, Amber
Buzzer	Multi-tone
Operating temperature Range	-20oC to 50oC (-22oF to 150oF)
Colour	Black
Material	ABS
Weight	200 grams
Dimension	135mm (Height) X 76mm (Width) X 22mm (Thickness)
Wire Termination	10 conducting wire at length approx. 300mm
Reader Mode	Card Only, Card and PIN.
PIN Input	1 – 6 Digits (R303)
Keypad	3 x 4 Keys (R303)
Communication Interface	RS485 or Wiegand (Selectable)
Wiegand interface Output bit format	26, 32, 37, 40, 56, 80, 168(Asis) bits format and 8-digit 32, 37, 40 bits format
Support Card Type	Mifare (ISO 14443-A, ISO 14443-B)
EZ-Link	Output CAN or CSN (Selectable)

Mounting	Hook On Bracket

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause

harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Documents / Resources

ASIS technologies R300 Reader [pdf] User Guide
R303, SPH-R303, SPHR303, R300 Reader, R300, Reader

References

- **User Manual**