



IDTECK Co., Ltd.

5F Ace Techno Tower B/D, 684-1, Deungchon-Dong, Gangseo-Gu, Seoul, 157-030, Korea
Tel : 82-2-2659-0055 Fax : 82-2-2659-0086 www.idteck.com webmaster@idteck.com



Architect & Engineer Specification

IP-100R ASK Format Standalone Proximity Access Controller

October 4, 2005

1 Introduction

The intent of this document is to describe the specification of IP-100R ASK Format Standalone Proximity Access Controller manufactured by IDTECK Co., Ltd. All the information is provided in detail for system architect and engineers designing access control system.

2 Description

The IP-100R ASK Format Standalone Proximity Access Controller shall provide total control of access control for single door with pin and proximity. With built-in 125KHz proximity reader, it shall dynamically control up to 512 users. Combined with Starwatch Dual Pro software, the IP-100R shall provide easy yet secure access control solution.

3 Mechanical Specification

- 3.1 The IP-100R proximity reader shall measure 3.94" x 3.4" x 1.22" (100 x 87 x 31mm). IP-100R shall arrive disassembled and contains following;
 - 3.1.1 A wall mounting plate
 - 3.1.2 The body that mounts to the wall mounting plate
- 3.2 The IP-100R shall have a dark pearl gray body
- 3.3 The IP-100R shall weight 210g (Packaged weight for shipping shall be 300g)

4 Electrical Specification

- 4.1 The IP-100R shall contain Dual 8bit Microprocessor
- 4.2 The IP-100R shall contain memory as following.
 - 4.2.1 Program memory of 20KByte ROM.
 - 4.2.2 Data memory of 2KByte EEPROM.
- 4.3 The IP-100R shall have a 12 key numeric Keypad with back light.
- 4.4 The IP-100R shall indicate its status through red, green, yellow LEDs.
- 4.5 The IP-100R standalone proximity reader shall operate on 12V. Max 200mA.

5 RFID reader Specification

- 5.1 The IP-100R shall include built-in 125KHz RF reader.
- 5.2 The IP-100R shall provide 1 external reader port for control exit.
- 5.3 Reading Range of IP-100R shall vary depending on the types of the card that are used. The IP-100R shall accept following proximity cards with stated reading range.
 - 5.3.1 Passive cards that are stated below shall operate with the IP-100R and shall have declared reading range.
 - 5.3.1.1 IPC 80 card (ISO credit card size and thickness) shall have 4 inch (10 Cm) reading range.
 - 5.3.1.2 IPC 170 card (clamshell card) shall have 4 inch (10 Cm) reading range.
 - 5.3.1.3 IPK 50 key tag shall have 2 inch (5 Cm) reading range.
- 5.4 The IP-100R shall have try-out error alarm
- 5.5 The IP-100R shall have toggle mode for door opening and closing.

6 Communication Specification

- 6.1 External reader port included in IP-100R shall supports 24 bit Wiegand communication.
- 6.2 The IP-100R shall provide RS232 communication.
- 6.3 The IP-100R shall support baud rate of 9600bps(default)
- 6.4 Input and Output as following shall be provided by the IP-100R.
 - 6.4.1 The IP-100R shall have isolated 5 input ports.



IDTECK Co., Ltd.

5F Ace Techno Tower B/D, 684-1, Deungchon-Dong, Gangseo-Gu, Seoul, 157-030, Korea
Tel : 82-2-2659-0055 Fax : 82-2-2659-0086 www.idteck.com webmaster@idteck.com



6.4.2 The IP-100R shall have 4output ports as following 2output relays (Com, NO,NC), 1 TTL and 1 Chime bell output.

7 Environmental Specification

7.1 Operating Temperature

7.1.1 The IP-100R shall operate temperature between -35 ° C ~ +65 ° C.

7.2 Operating Humidity

7.2.1 The IP-100R shall operate humidity between 10% ~ 90% RH(Non-condensing)

8 Certification and Approvals

8.1 The IP-100R shall have following certification

8.1.1 FCC certification

8.1.2 UL certification

8.1.3 CE certification

8.1.4 MIC certification

Technical Support Contact Information:

IDTECK

5F, Ace Techno Tower B/D, 684-1 Deungchon-Dong

Gangseo-Gu, Seoul, 157-030

Republic of Korea

Hours: 0900 ~ 1900

Tel: 82-2-2659-0055

Fax: 82-2-2659-0086

E-mail: webmaster@idteck.com

Web: www.idteck.com

Disclaimer

The information in the document has been carefully checked and reliable. IDTECK reserves the right to modify and revise the document without any notice. IDTECK holds no reliability for in accuracies in the document. If you discover any discrepancy in this document please contact us via email listed above or phone.