



IDTECK Co., Ltd.

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Architect & Engineer Specification

100R Standalone Proximity Access Controller

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1 Introduction

The intent of this document is to describe the specification of 100R 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 100R standalone proximity access controller shall provide total control of access control for single door. With built-in 125KHz proximity reader, it shall dynamically control up to 512 users and provide toggle mode, duress mode function. Combined with Starwatch Dual Pro software, the 100R shall provide easy yet secure access control solution.

3 Mechanical Specification

- 3.1 The 100R proximity reader shall measure 3.94" x 3.4" x 1.22" (100 x 87 x 31mm). 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 100R shall have a dark pearl gray body
- 3.3 The 100R shall weight 210g (Packaged weight for shipping shall be 300g)

4 Electrical Specification

- 4.1 The 100R shall contain Dual 8bit Microprocessor
- 4.2 The 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 100R shall have a 12 key numeric Keypad with back light.
- 4.4 The 100R shall indicate its status through red, green, yellow LEDs.
- 4.5 The 100R standalone proximity reader shall operate on 12V. Max 200mA.

5 RFID reader Specification

- 5.1 The 100R shall include built-in 125KHz RF reader.
- 5.2 The 100R shall provide 1 external reader port for control exit.
- 5.3 Reading Range of 100R shall vary depending on the types of the card that are used. The 100R shall accept following proximity cards with stated reading range.
 - 5.3.1 Passive cards that are stated below shall operate with the 100R and shall have declared reading range.
 - 5.3.1.1 IDC 80 card (ISO credit card size and thickness) shall have 4 inch (10 Cm) reading range.
 - 5.3.1.2 IDC 170 card (clamshell card) shall have 4 inch (10 Cm) reading range.
 - 5.3.1.3 IDK 50 key tag shall have 2 inch (5 Cm) reading range.
 - 5.3.1.4 IMC125 mini proximity Sticker Tag shall have 2 inch (5 Cm) reading range.
 - 5.3.2 Active cards that are stated below shall operate with the 100R and shall have declared reading range.
 - 5.3.2.1 IDA 200 active card shall have 15 inch (40 Cm) reading range.

6 Communication Specification

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



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- 6.4.1 The 100R shall have 5 input ports (isolation).
- 6.4.2 The 100R shall have 5 output ports as following, 2 form-C relay (Com, NO, NC) Rating , 2EA TTL, 1EA of 26bit wiegand external reader port.

7 Environmental Specification

7.1 Operating Temperature

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

7.2 Operating Humidity

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

8 Certification and Approvals

8.1 The 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:

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