



**IDTECK Co., Ltd.**

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## *Architect & Engineer Specification*

# **RFK101 Keypad & Proximity Card Reader**

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### **1 Introduction**

The intent of this document is to describe the specification of RFK101 Keypad & Proximity Card Reader manufactured by IDTECK Co., Ltd. All the information is provided in detail for system architect and engineers designing access control system.

### **2 Description**

The RFK101 Keypad & Proximity Card Reader shall provide various applications with one card solution for in and out door use even in harsh environment. RFK101 shall have built in 12 key numeric keypad. Combined with Starwatch Dual or iTDC Pro software, the RFK101 shall provide easy yet secure access control solution.

### **3 Mechanical Specification**

- 3.1 The RFK101 Keypad & Proximity Card Reader shall measure 3.4" x 3.94" x 1.22" (87 x 100 x 31mm).
- 3.2 The RFK101 shall have a dark pearl gray body
- 3.3 The RFK101 shall weight 190g (Packaged weight for shipping shall be 250g)

### **4 Electrical Specification**

- 4.1 The RFK101 Keypad & Proximity Card Reader shall indicate its status through red, yellow and green 3LED and buzzer.
- 4.2 The RFK101 shall operate on 12V. Max 150mA.
- 4.3 The RFK101 shall have 125KHz frequency.

### **5 RFID reader Specification**

- 5.1 Reading Range of the RFK101 shall vary depending on the types of the card that are used. The RFK101 shall accept following proximity cards with stated reading range.
  - 5.1.1 Passive cards those are stated below shall operate with the RFK101 and shall have declared reading range.
    - 5.1.1.1 IDC 80 card (ISO credit card size and thickness) shall have 4inch (10 Cm) reading range.
    - 5.1.1.2 IDC 170 card (clamshell card) shall have 4 inch (10 Cm) reading range.
    - 5.1.1.3 IDK 50 key tag shall have 2 inch (5 Cm) reading range.
    - 5.1.1.4 IMC 125 coin shall have 2 inch (5 Cm) reading range.
  - 5.1.2 Active cards that are stated below shall operate with the 100R and shall have declared reading range.
    - 5.1.2.1 IDA 150 active card shall have 12inch (30 cm) reading range.
    - 5.1.2.2 IDA 200 active card shall have 15inch (40 cm) reading range.
- 5.2 The RFK101 shall have PSK modulation.
- 5.3 The RFK101 shall have dual beep tones.
- 5.4 The RFK101 shall have supervisory signal optionally

### **6 Communication Specification**

- 6.1 The RFK101 shall provide 26bit Wiegand, RS232 and ABA Track II magnetic stripe format and 4/8bit burst or 3x4 matrix output.



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## **7 Environmental Specification**

### **7.1 Operating Temperature**

7.1.1 The RFK101 shall operate temperature between -35 ° C ~ +65 ° C.

### **7.2 Operating Humidity**

7.2.1 The RFK101 shall operate humidity between 10% ~ 90% RH(Non-condensing)

## **8 Certification and Approvals**

### **8.1 The RFK101 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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