



**IDTECK Co., Ltd.**

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## *Architect & Engineer Specification*

# **IPK101 Keypad & Proximity Card Reader**

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### **1 Introduction**

The intent of this document is to describe the specification of IPK101 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 IPK101 Keypad & Proximity Card Reader shall provide various applications with one card solution for in and out door use even in harsh environment. IPK101 shall have built in 12 key numeric keypad. Combined with Starwatch Dual or iTDC Pro software, the IPK101 shall provide easy yet secure access control solution.

### **3 Mechanical Specification**

- 3.1 The IPK101 Keypad & Proximity Card Reader shall measure 3.4" x 3.94" x 1.22" (87 x 100 x 31mm).
- 3.2 The IPK101 shall have a dark pearl gray body
- 3.3 The IPK101 shall weight 190g (Packaged weight for shipping shall be 250g)

### **4 Electrical Specification**

- 4.1 The IPK101 Keypad & Proximity Card Reader shall indicate its status through red, yellow and green 3LED and buzzer.
- 4.2 The IPK101 shall operate on 12V. Max 150mA.
- 4.3 The IPK101 shall have 125KHz frequency.

### **5 RFID reader Specification**

- 5.1 Reading range of the IPK101 shall vary depending on the types of the card that are used. The IPK101 shall accept following proximity cards with stated reading range.
  - 5.1.1 Passive cards those are stated below shall operate with the IPK101 and shall have declared reading range.
    - 5.1.1.1 IPC 80 card (ISO credit card size and thickness) shall have 4inch (10 Cm) reading range.
    - 5.1.1.2 IPC 170 card (clamshell card) shall have 4 inch (10 Cm) reading range.
- 5.2 The IPK101 shall have ASK modulation.
- 5.3 The IPK101 shall have dual beep tones.

### **6 Communication Specification**

- 6.1 The IPK101 shall provide 26bit Wiegand, RS232 and optional ABA Track II magnetic stripe format and 4/8bit burst or 3x4 matrix output.

### **7 Environmental Specification**

- 7.1 Operating Temperature
  - 7.1.1 The IPK101 shall operate temperature between -35 ° C ~ +65 ° C.
- 7.2 Operating Humidity
  - 7.2.1 The IPK101 shall operate humidity between 10% ~ 90% RH(Non-condensing)



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## **8 Certification and Approvals**

- 8.1 The IPK101 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**

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