



**IDTECK Co., Ltd.**

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## *Architect & Engineer Specification*

# **IP20 ASK Format Proximity Card Reader**

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### **1 Introduction**

The intent of this document is to describe the specification of IP20 ASK Format 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 IP20 ASK Format Proximity Card Reader shall provide various applications with one card solution for in and out door use even in harsh environment. The IP20 shall be successfully installed on flat wall mount. Combined with iCON100, iTDC, Third Party Controller ASK[EM] Format Standalone Controller, the IP20 shall provide easy yet secure access control solution.

### **3 Mechanical Specification**

- 3.1 The IP20 ASK Format Proximity Card Reader shall measure 3" x 4.89" x 0.87" (76mm x 124mm x 23.5 mm).
- 3.2 The IP20 shall have a dark pearl gray body.
- 3.3 The IP20 shall weight 185g (Packaged weight for shipping shall be 250g)

### **4 Electrical Specification**

- 4.1 The IP20 ASK Format Proximity Card Reader shall indicate its status through red and green LED and buzzer.
- 4.2 The IP20 shall operate on 12V. Max 350mA.
- 4.3 The IP20 shall have 125KHz frequency.

### **5 RFID reader Specification**

- 5.1 Reading range of the IP20 shall vary depending on the types of the card that are used. The IP20 shall accept following proximity cards with stated reading range.
  - 5.1.1 Passive cards those are stated below shall operate with the IP20 and shall have declared reading range.
    - 5.1.1.1 IPK50 key tag shall have up to 2 inch (5cm) reading range.
    - 5.1.1.2 IPC 80 card (ISO credit card size and thickness) shall have up to 4 inch (10 Cm) reading range.
    - 5.1.1.3 IPC 170 card (clamshell card) shall have up to 4 inch (10 Cm) reading range.
- 5.2 The IP20 shall have ASK modulation.
- 5.3 The IP20 shall have Reverse power polarity protection

### **6 Communication Specification**

- 6.1 The IP20 shall provide 26bit Wiegand and optional RS232 and ABA Track II magnetic stripe format

### **7 Environmental Specification**

- 7.1 Operating Temperature
  - 7.1.1 The IP20 shall operate temperature between -35° C ~ +65° C.
- 7.2 Operating Humidity
  - 7.2.1 The IP20 shall operate humidity between 10% ~ 90% RH(Non-condensing)
- 7.3 The IP20 shall be 100% weather proof.



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**8 Certification and Approvals**

- 8.1 The IP20 shall have following certification
  - 8.1.1 FCC certification
  - 8.1.2 UL certification
  - 8.1.3 CE certification
  - 8.1.4 KC certification
  - 8.1.5 RoHS certification

**Technical Support Contact Information:**

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