



**IDTECK Co., Ltd.**

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## *Architect & Engineer Specification*

# **FGR006SR Fingerprint & Smart Card Reader**

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### **1 Introduction**

The intent of this document is to describe the specification of FGR006SR Fingerprint & Smart 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**

FGR006SR Fingerprint & Smart Card Reader shall provide easy and versatile solution to access control. Armed with 1:n identification within 2 second, it shall dynamically control up to 4,000 fingerprints. With Built-in Mifare Smart Card reader and Fingerprint reader, FGR006SR provide higher level of security. FGR006SR shall provide easy connection to controllers with standard 34bit Wiegand communication. With its compact size, FGR006SR shall be suitable in any type of door. Combined with iTDC-SR or iCON100-SR controller, the FGR006SR shall provide easy yet secure access control solution.

### **3 Mechanical Specification**

- 3.1 The FGR006SR biometric reader shall measure 2.6" x 5" x 2" (66 x 129 x 52mm).
- 3.2 The FGR006SR shall have a dark pearl gray and gray body
- 3.3 The FGR006SR shall weigh 0.5 lbs (230g)

### **4 Electrical Specification**

- 4.1 The FGR006SR shall contain 32bit ARM9 and Dual 8bit Microprocessor
- 4.2 The FGR006SR shall contain memory as following.
  - 4.2.1 Finger Module shall have following memory
    - 4.2.1.1 Program memory of 128KByte Flash memory
    - 4.2.1.2 Data memory of 128KByte/256KByte/512KByte Flash memory
  - 4.2.2 Controller part of FGR006SR shall have following memory
    - 4.2.2.1 Program memory of 128KByte ROM.
    - 4.2.2.2 Data memory of 256KByte Flash Memory.
- 4.3 The FGR006SR shall indicate its status through LEDs.
- 4.4 The FGR006SR shall have piezo buzzer for the beeper.
- 4.5 Temper switch shall be built in to the FGR006SR to provide safe operation.
- 4.6 The FGR006SR shall operate on 12V. Max 350mA.

### **5 Fingerprint reader Specification**

- 5.1 The FGR006SR shall include built in optical fingerprint module.
- 5.2 1,000/2,000/4,000 Fingerprint templates shall be stored as dual finger templates.
- 5.3 Dual fingerprint template size shall be 800Kbytes.
- 5.4 The FGR006SR shall provide 1:n identification up to 4000 users.
- 5.5 Optional touch sensor shall be available with FGR006SR to provide easy identification.

### **6 RFID reader Specification**

- 6.1 The FGR006SR shall include built-in 13.56MHz Mifare Smart Card reader.
- 6.2 The FGR006SR shall have reading range of 4" (10cm).

### **7 Communication Specification**

- 7.1 The FGR006SR shall connect to controller with 34 bit Wiegand output
- 7.2 The FGR006SR shall provide RS422, RS232 and optional TCP/IP communication.
- 7.3 The FGR006SR shall support baud rate of 4800bps, 9600bps(default), 19200bps, and 38400bps software programmable.



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- 7.4 By using optional RS232 Communication Jack, FGR006SR shall upload and download fingerprint templates from/to PDA, Notebook, and Computer.

## **8 Environmental Specification**

### 8.1 Operating Temperature

- 8.1.1 The FGR006SR shall operate temperature between 0 ° C ~ +50 ° C.

### 8.2 Operating Humidity

- 8.2.1 The FGR006SR shall operate humidity between 10% ~ 90% RH(Non-condensing)

## **9 Certification and Approvals**

### 9.1 The FGR006SR shall have following certification

- 9.1.1 FCC certification

- 9.1.2 UL certification

- 9.1.3 CE certification

- 9.1.4 MIC certification

## **Technical Support Contact Information:**

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