



IDTECK Co., Ltd.

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Architect & Engineer Specification

FGR006SRB Fingerprint stored smartcard Reader

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1 Introduction

The intent of this document is to describe the specification of FGR006SRB Fingerprint stored smartcard Reader manufactured by IDTECK Co., Ltd. All the information is provided in detail for system architect and engineers designing access control system.

2 Description

FGR006SRB Fingerprint stored smartcard reader shall provide easy and versatile solution to access control. Armed with fingerprint embedded smart card technology, it shall dynamically control unlimited fingerprints. With Built-in 13.56MHz Smart Card [Mifare] reader and Fingerprint reader, FGR006SRB provide higher level of security. FGR006SRB shall provide easy connection to controllers with standard 26bit wiegand communication. With its compact size, FGR006SRB shall be suitable in any type of door. Combined with iTDC or iCON100 controller, the FGR006SRB shall provide easy yet secure access control solution.

3 Mechanical Specification

- 3.1 The FGR006SRB biometric reader shall measure 2.6" x 5" x 2" (66 x 129 x 52mm).
- 3.2 The FGR006SRB shall have a dark pearl gray and gray body.
- 3.3 The FGR006SRB shall weigh 0.5 lbs (230g)

4 Electrical Specification

- 4.1 The FGR006SRB shall contain 32bit ARM9 and Dual 8bit Microprocessor
- 4.2 The FGR006SRB shall contain memory as following.
 - 4.2.1 Program memory of 8KByte ROM
 - 4.2.2 Data memory of 128KByte Flash memory
- 4.3 The FGR006SRB shall indicate its status through LEDs.
- 4.4 The FGR006SRB shall have piezo buzzer for the beeper.
- 4.5 Temper switch shall be built in to the FGR006SRB to provide safe operation.
- 4.6 The FGR006SRB fingerprint smartcard reader shall operate on 12V. Max 350mA.
- 4.7 .

5 Fingerprint reader Specification

- 5.1 The FGR006SRB shall include built in optical fingerprint module.
- 5.2 Fingerprint template size shall be 400bytes with less than 1 sec of verification time.
- 5.3 Fingerprint data for FGR006SRB shall be encrypted using patented encryption algorithm.

6 RFID reader Specification

- 6.1 The FGR006SRB shall include built-in 13.56MHz Smart Card[Myfare] reader.
- 6.2 The FGR006SRB shall provide 1 external reader port for anti-pass back function.
- 6.3 The FGR006SRB shall accept ISO 14443 Type A Mifare card which has fingerprint embedded by IDTECK PRG2000B

7 Communication Specification

- 7.1 The FGR006SRB shall support 26 bit Wiegand output to access controller.
- 7.2 The FGR006SRB shall provide RS422, RS232 and optional TCP/IP communication.
- 7.3 The FGR006SRB shall support baud rate of 4800bps, 9600bps(default), 19200bps, and 38400bps software programmable.



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8 Environmental Specification

8.1 Operating Temperature

8.1.1 The FGR006SRB shall operate temperature between 0 ° C ~ +50 ° C .

8.2 Operating Humidity

8.2.1 The FGR006SRB shall operate humidity between 10% ~ 90% RH(Non-condensing)

9 Certification and Approvals

9.1 The FGR006SRB 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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