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Architect & Engineer Specification

FGR006EX Fingerprint & proximity Reader

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1 Introduction

The intent of this document is to describe the specification of FGR006EX Fingerprint & proximity Reader manufactured by IDTECK Co., Ltd. All the information is provided in detail for system architect and engineers designing access control system.

2 Description

FGR006EX Fingerprint & proximity 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 external 125kHz proximity reader port and Built-in Fingerprint reader, FGR006EX provide higher level of security. FGR006EX shall provide easy connection to controllers with standard 26bit wiegand communication. With its compact size, FGR006EX shall be suitable in any type of door. Combined with iTDC or iCON100 controller, the FGR006EX shall provide easy yet secure access control solution.

3 Mechanical Specification

- 3.1 The FGR006EX biometric reader shall measure 2.6" x 5" x 2" (66 x 129 x 52mm).
- 3.2 The FGR006EX shall have a dark pearl gray and gray body

4 Electrical Specification

- 4.1 The FGR006EX shall contain 32bit ARM9 and Dual 8bit Microprocessor
- 4.2 The FGR006EX 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 FGR006EX shall have following memory
 - 4.2.2.1 Program memory of 128KByte ROM.
 - 4.2.2.2 Data memory of 256KByte SRAM.
- 4.3 The FGR006EX shall indicate its status through LEDs.
- 4.4 The FGR006EX shall have piezo buzzer for the beeper.
- 4.5 Dual temper switch shall be built in to the FGR006EX to provide safe operation.
- 4.6 The FGR006EX standalone proximity reader shall operate on 12V. Max 350mA.

5 Fingerprint reader Specification

- 5.1 The FGR006EX 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 FGR006EX shall provide 1:n identification up to 4000 users.
- 5.5 Optional touch sensor shall be available with FGR006EX to provide easy identification.

6 RFID reader Specification

- 6.1 The FGR006EX shall include built-in external 125KHz RF reader port.
- 6.2 Reading Range of FGR006EX shall vary depending on the types of the RFID reader that are used. The FGR006EX shall accept proximity card reader with 26bit wiegand output.

7 Communication Specification

- 7.1 The FGR006EX shall provide RS422, RS232 and optional TCP/IP communication.
- 7.2 The FGR006EX shall support baud rate of 4800bps, 9600bps(default), 19200bps, and 38400bps software programmable.
- 7.3 By using optional RS232 Communication Jack, FGR006EX shall upload and download fingerprint



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templates from/to PDA, Notebook, and Computer.

8 Environmental Specification

8.1 Operating Temperature

8.1.1 The FGR006EX shall operate temperature between 0 ° C ~ +50 ° C .

8.2 Operating Humidity

8.2.1 The FGR006EX shall operate humidity between 10% ~ 90% RH(Non-condensing)

9 Certification and Approvals

9.1 The FGR006EX 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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