Architect & Engineer Specification

RFL200C Proximity Single Door Access Controller

October 4, 2005

1 Introduction

The intent of this document is to describe the specification of RFL200C standalone proximity access controller manufactured by IDTECK Co., Ltd. All the information is provided in detail for system architect and engineers designing access control system.

2 Description

The RFL200C standalone proximity access controller shall provide total control of access control for single door. With built-in 125KHz proximity reader, it shall dynamically control up to 512 users and provide event data safety mode once power failure and power fail safe or power fail secure locks function. Combined with RFL Pro software, the RFL200 shall provide easy yet secure access control solution.

3 Mechanical Specification

3.1 The RFL200 proximity reader shall measure 4.9” x 1.8” x 0.8” (124 x 45 x 20.84mm). RFL200C shall arrive disassembled and contains following;

3.1.1 A wall mounting plate

3.1.2 The body that mounts to the wall mounting plate

3.2 The RFL200C shall have a dark pearl gray body

3.3 The RFL200C shall weight 80g (Packaged weight for shipping shall be 200g)

4 Electrical Specification

4.1 The RFL200C shall indicate its status through red and green LEDs.

4.2 The RFL200C standalone proximity reader shall operate on 12V. Max 150mA.

4.3 The RFL200 shall have Watch-dog timer & Power on Reset.

5 RFID reader Specification

5.1 The RFL200C shall include built-in 125KHz RF reader.

5.2 Reading Range of RFL200C shall vary depending on the types of the card that are used. The RFL200C shall accept following proximity cards with stated reading range.

5.2.1 Passive cards that are stated below shall operate with the RFL200C and shall have declared reading range.

5.2.1.1 IDC 80 card (ISO credit card size and thickness) shall have 4 inch (10 Cm) reading range.

5.2.1.2 IDC 170 card (clamshell card) shall have 4 inch (10 Cm) reading range.

5.2.1.3 IDK 50 key tag shall have 2 inch (5 Cm) reading range.

5.2.1.4 IMC125 mini proximity Sticker Tag shall have 2 inch (5 Cm) reading range.

5.2.2 Active cards that are stated below shall operate with the 100R and shall have declared reading range.

5.2.2.1 IDA 200 active card shall have 15 inch (40 Cm) reading range.

5.3 RFL200 shall have 30ms reading time.

6 Communication Specification

6.1 RFL200C shall support RS 485 Network communication.(Max255)

6.2 The RFL200C shall support baud rate of 9600bps(default)

6.3 Interface controller shall be required to control more than 16 units of RFL200C

7 Environmental Specification

7.1 Operating Temperature

7.1.1 The RFL200C shall operate temperature between -35 °C ~ +65 °C.

7.2 Operating Humidity

7.2.1 The RFL200C shall operate humidity between 10% ~ 90% RH(Non-condensing)

8 Certification and Approvals

8.1 The RFL200C shall have following certification

8.1.1 FCC certification

8.1.2 UL certification

8.1.3 CE certification

8.1.4 MIC certification

9. Interface controller

9.1 Interface controller shall be use communication for RFL200C

9.2 Interface controller shall store up to 8,000events in 1Mbit SRAM.

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