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Architect & Engineer Specification

IP505 Standalone Proximity Access Controller
October 4, 2005

1   Introduction
The intent of this document is to describe the specification of IP505 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 IP505 standalone proximity access controller shall provide total control of access control for single door. With built-in 125KHz ASK[EM] card reader, it shall dynamically control up to 10,000 users / 7,250 Events. Anti-pass back operation shall be supported through external reader port. Combined with Starwatch Dual Pro software, the IP505 shall provide easy yet secure access control solution.

3   Mechanical Specification
3.1   The IP505 proximity reader shall measure 5.9" x 4.72" x 1.55" (150 x 120 x 39.5mm). IP505 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 IP505 shall have a dark pearl gray body
3.3   The IP505 shall weight 397g (Packaged weight for shipping shall be 600g)

4   Electrical Specification
4.1   The IP505 shall contain Dual 8bit Microprocessor
4.2   The IP505 shall contain memory as following.
    4.2.1   Program memory of 64KByte ROM.
    4.2.2   Data memory of 128KByte RAM.
4.3   The IP505 shall contain LCD which includes 1 x Character LCD Module, 2 line x 16ch, 65.6mm x 13.8mm.
4.4   The IP505 shall have a 16 key numeric Keypad with back light.
4.5   The IP505 shall indicate its status through red, green, yellow LEDs.
4.6   The IP505 shall include built-in piezo buzzer for alarm purpose.
4.7   The IP505 standalone proximity reader shall operate on 12V. Max 350mA.

5   RFID reader Specification
5.1   The IP505 shall include built-in 125KHz ASK[EM] card reader.
5.2   The IP505 shall provide 1 external reader port for anti-pass back
5.3   Reading Range IP of 505 shall vary depending on the types of the card that are used. The IP505 shall accept following proximity cards with stated reading range.
    5.3.1   Passive cards that are stated below shall operate with the IP505 and shall have declared reading range.
        5.3.1.1   IPC 80 card (ISO credit card size and thickness) shall have 4 inch (10 Cm) reading range.
        5.3.1.2   IPC 170 card (clamshell card) shall have 4 inch (10 Cm) reading range.
        5.3.1.3   IPK 50 key tag shall have 2 inch (5 Cm) reading range.

6   Communication Specification
6.1   External reader port included in IP505 shall supports 26 bit Wiegand communication.
6.2   The IP505 shall provide RS422, RS232 and optional TCP/IP communication.
6.3   The IP505 shall support baud rate of 4800bps, 9600bps(default), 19200bps, and 38400bps software programmable.

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6.4   Input and Output as following shall be provided by the 505R.
    6.4.1   The IP505 shall have 4 input ports (isolation).
    6.4.2   The IP505 shall have 4 output ports as following, 2 form-C relay (Com, NO, NC) Rating 2A, 2EA TTL.

7   Environmental Specification
7.1   Operating Temperature
    7.1.1   The IP505 shall operate temperature between 0° C ~ +50° C.
7.2   Operating Humidity
    7.2.1   The IP505 shall operate humidity between 10% ~ 90% RH(Non-condensing)

8   Certification and Approvals
8.1   The IP505 shall have following certification
    8.1.1   FCC certification
    8.1.2   UL certification
    8.1.3   CE certification
    8.1.4   MIC certification

Technical Support Contact Information:

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