

The ISAAC System

Intelligent Stand Alone Access Control

Have You Heard This?

Building Manager: "I need a card reader for my new building."

Purchasing Department: "NO"

Building Manager: "Why not?"

Purchasing Department: "It costs too much to run wires and connect to the existing system."

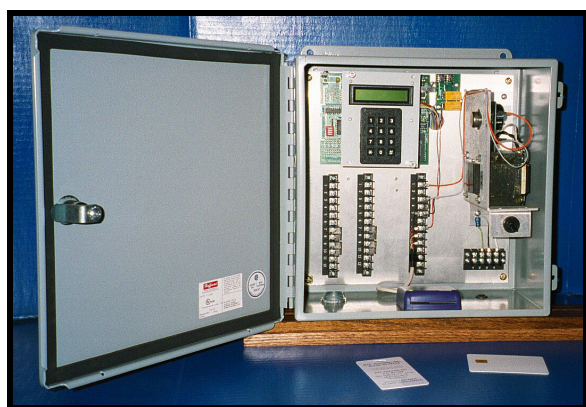
Building Manager: "Isn't there something out there that I can use with our present badges to control access to my new building."

Purchasing Department: "I don't know of anything".

Security System Installer: "Let's Call RTC."

RTC:

Yeah, We Can Do That!



ISAAC is an intelligent low cost stand alone access control system. The ISAAC System can use a variety of card reader technologies and can operate up to two doors with the possibility of additional remote reader units using hard wire or radio modems. RTC has used magnetic stripe, proximity, bar code, wiegand and Smart Card readers.

ISAAC can be networked to a PC or uses Smart Cards to maintain and update user badges and access records for the access control system. The computer part of the ISAAC system uses Microsoft ACCESS Database program to

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maintain personnel records and to generate reports. This allows a greater flexibility for the user, enables database fields to be easily changed and makes ISAAC user friendly. A "SMARTWRITE" Windows wedge program is required to read and write the Smart Cards. The interface between ACCESS and the "SMARTWRITE" program is provided by RTC.

How ISAAC Works

Once a user presents a badge to the card reader, ISAAC locally determines whether the card is valid and whether the user's access level is correct for

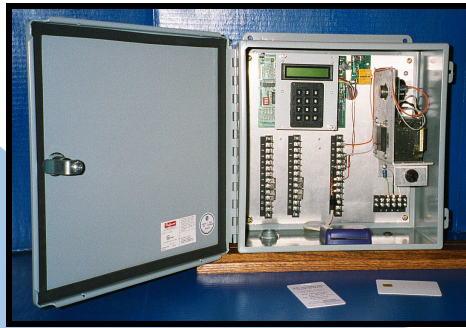
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the door ISAAC is controlling. If the access conditions are correct ISAAC will unlock the door for a predetermined amount of time. ISAAC also monitors the door position, if the door doesn't completely close behind someone, ISAAC will notify the user by causing the beeper integrated in the Read head to beep.

The card data base can be entered either through the use of a PC, a Smart Card or by using the keypad and display located in ISAAC's housing. Each ISAAC and user can be assigned an access level. This allows you to install multiple ISAACs in the building, use only one badge database, and still have the flexibility of restricting access through certain doors. ISAAC can maintain up to 2000 users and store up to 1600 transactions, consisting of badge number, time, date, reader address and IN or OUT (dual reader only). There is no need to install a UPS for ISAAC. Should the unit lose power the badge database and the transaction log will be saved. When power is restored all of the information will be available.

To pass information between a PC and ISAAC, new Smart Card technology can be used. The Smart Card is the size of a standard credit card and can have as many as 3 different reader technologies built in. The different card technologies are Proximity, Magnetic Stripe, and Barcode. Proximity and Magnetic Stripe are the two most popular for access control. Smart Cards do not need to be distributed to all of the users. Example: If you presently have a magnetic stripe card system, but would like to restrict access to more doors and it is not cost effective to extend your present system to those doors, ISAAC will allow you to use your present badges to gain access through the new doors. Only 1 or 2 Smart Cards will be needed to upload/download data to the unit.



The ISAAC System operates independently of an existing system.

How to use ISAAC with Smart Cards

To use ISAAC without being networked you need a PC, a Smart Card read/writer, and RTC's Wedge software. The Wedge software allows you to enter new data and change old data to be downloaded to ISAAC. All user interface takes place in a database created in Microsoft Access. Once all the changes have been made to the database you insert a Smart Card into the read/writer and download the changes to the Smart Card. Once completed you take the Smart Card to ISAAC unlock the front panel exposing the keypad display and another Smart Card

(Continued on page 3)

(Continued from page 2)

read/writer. You insert your card which will upload the badge information to ISAAC and download to the card any transactions that have occurred. This process is repeated if there are more than one ISAAC installed in your facility. It may be necessary to use more than one card to hold all the downloaded data from ISAAC as each card can hold up to 700 transactions. You will be notified through the display what steps are taking place and given instructions on what to do next. Once complete, remove the Smart Card lock the door and let ISAAC worry about who can or can't get through the door. Next, insert the Smart Card back into the PC's Smart Card reader/writer and the data that ISAAC downloaded to the card will be uploaded to the PC using the simple database program, Microsoft Access. All the software needed to interface between Access and the Smart Card is incorporated within the RTC Wedge software. A basic access application is provided that allows you to add/delete badges in the system. Since ISAAC utilizes access levels, the same database may be used for multiple ISAAC units. Two report functions are also provided. We have found many

people are proficient in creating reports within Microsoft Access. We will provide all the information you need and allow you to modify our database and create your own customized reports.

When Networked, The Data Is Automatically Downloaded To A PC

Do you need a portable standalone system that can do this?

Accountability
Access Control
People Logging
Time and Attendance
Billing
Contractor Time Verification
Portable Protection for Construction Trailers
Construction Site Equipment Protection
Secure Keys and Tools
Temporary Stand Alone Installation

Where to use ISAAC

Warehouse
Tool Room
Storage Trailers
Time & Attendance Applications
Individual Offices
New Buildings
Vehicle Gates
Temporary Entrances
Where ever extending the existing security system is not feasible

RTC Associates, Inc.
41 Grove Street, PO Box 868
New Milford, CT 06776
Phone: 860-354-0078
Fax: 860-350-8957

e-mail: info@rtcassociates.com
www.rtcassociates.com

The ISAAC System

Intelligent Stand Alone Access Control

What You Get

- 12x12x6 Hoffman Enclosure with Keylock
- Electronics
- 24 volt 2.4 amp or 12 volt 3.4 amp Power Supply
- 10 Foot Power Cord
- RTC Software
- Preinstallation of Card Database in ISAAC and Database Program (if requested)
- Telephone Support
- ISAAC User Manual
- RTC Software User Manual

Available as Single or
Dual Door Model

Can Be Customized to
Meet Your Requirements

Read Head Technologies Available:

Wiegand
Magstripe
Proximity
Bar Code
Biometrics



RTC Associates, Inc.
41 Grove Street, PO Box 868
New Milford, CT 06776
Phone: 860-354-0078
Fax: 860-350-8957

e-mail: info@rtcassociates.com
www.rtcassociates.com