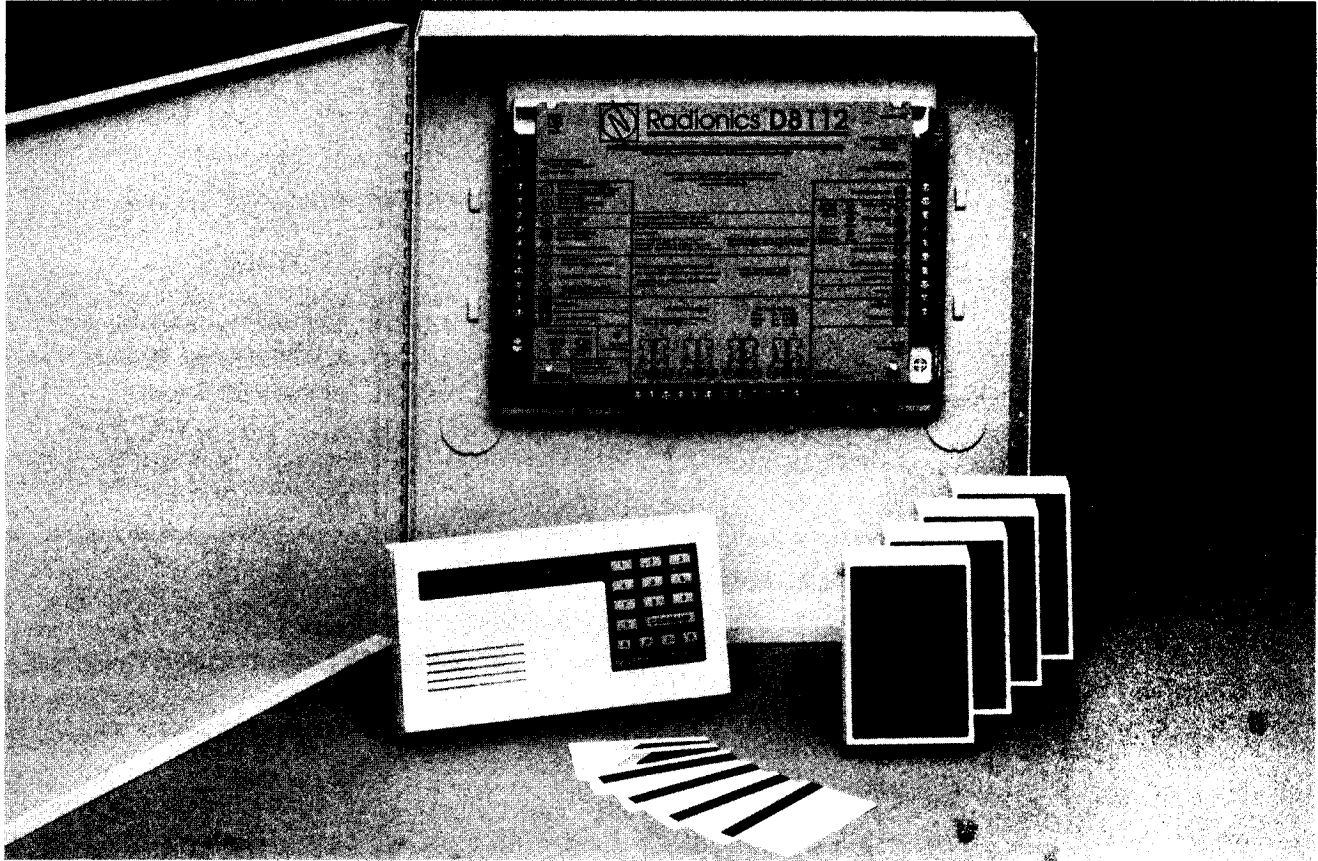


# R A D I O N I C S

## Access Control Systems D8112A Control/Communicator Specifications Sheet



### Description

The D8112A Control/Communicator integrates the functions of a security control panel, digital communicator, and access control software and hardware in a single unit.

Preventing false alarms is one of the many benefits of an integrated system. The D8112A can be programmed to grant access only to certain authorized users when the system is armed. Automatic disarming with ID card, built-in zone shunting and automatic exit control are several of the advanced features available with the D8112A. In addition, the D8112A can be programmed for opening reports to the central station by authorization level, and local logging of entries by user number.

The D8112A can control four access points and has eight supervised hardware protective zones. As many as 255 individual users can be identified and granted access based on seven different authorization levels. Authorization levels are controlled by an internal clock with 16 time intervals and holiday schedules.

Up to 400 events can be recorded in the D8112A's built-in memory (Logger). Using the D9300 Remote Account Manager, events can be retrieved remotely, and program parameters can be copied, modified, and stored. The events can be recorded locally when a dedicated serial printer or CRT is connected to the D8112A.

#### Card Readers

The D8220 Insert Card Reader is used to determine the encrypted serial number on the user's card. Up to eight D8220 Insert Card Readers can be installed in the D8112A system.

#### D8223 Proximity & D8224 Mini Proximity Readers

Up to a total of four D8223 or D8224 Proximity Readers can be installed with the D8112A, wiring the D8210 Wiegand Interface unit.

Both the D8220 and the D8223/D8224 reader systems can be used in the same D8112A Access Control System.

### Alarm and Status Annunciation

All eight zones are individually programmable and may be used to monitor all types of burglar alarm, fire alarm, and supervision devices. On-premises zone and system status annunciation is provided through either the D1252A Alpha II or D360 Command Centers. The D1252A Alpha II Command Center features an English language display for system and zone status annunciation, plus programmable custom text.

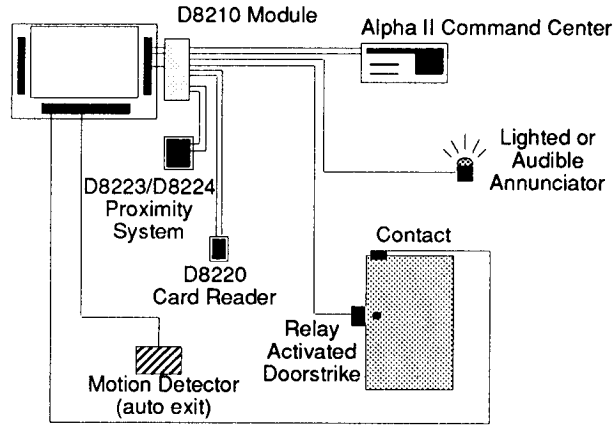
### Programming

The D5200 Bar Code Programmer is used by the alarm technician at the protected premises to program the D8112A. The D5200 is the same programmer used to program the D6112 Control/Communicator, standard models of the D8112 Control/Communicator, and the D6500 Security Receiver. Remote Programming is available using the D9300 Remote Account Manager. By enabling remote programming of the D8112A, the information used in the access control and security system can be changed from the central station as the user's requirements change.

## Standard Features

The D8112A provides many of the famous features available with the standard D8112 Control/Communicator, including:

- Eight programmable zones
- 12VDC, 2 Amp alarm power with three separate outputs
- 12VDC, 1 Amp auxiliary power with two separate outputs
- Built-in digital communicator with telephone line monitor
- Real time clock and test timer
- Battery charging circuit
- Battery voltage supervision
- Automatic reset circuit breakers
- Onboard warning buzzer and diagnostic LEDs
- Automatic answer
- Lightning and RFI protection
- Power limited external circuits
- Programmable reporting format
- Two telephone numbers
- Custom annunciator text
- Steady or pulsed alarm output
- Silent alarm option by zone
- Automatic bell time
- Inspector's local test mode



A Typical Access Control System Configuration

## Access Control Features

Advanced programming and hardware features of the D8112A integrated security and access control system include:

- Programmable entry/exit doorstrike and shunt control
- Automatic re-locking after entry
- Programmable "door blocked open" annunciation
- Seven programmable authorization levels
- Automatic or manual disarming options
- Users can be added and deleted using the Alpha II Command Center
- Programmable event memory options (Logger)
- Local printer options
- Timed event and authorization level control (Skeds)

## Doorstrike Control and Zone Shunting

The operating characteristics of each of the four doors in the access control system are individually programmed into the D8112A. Through programming, the D8112A can:

- Operate a doorstrike
- Shunt a specific zone during entry time
- Provide local and remote annunciation when a door is blocked or held open
- Operate an internal buzzer on the card reader and relays on the D8129 OctoRelay Module
- Automatically operate the doorstrike relay for exit requests
- Record entries and denials
- Provide an interlock on a separate protective zone for high security areas and vestibule control.

## Authorization Levels

The doors operate according to the authorization level of the card read at one of the card readers associated with the door. Seven programmable authorization levels are available. Each of the authorization levels is individually programmed to either allow or deny access based on the armed state of the panel. The D8112A can also be programmed to automatically disarm the entire alarm system, or only the interior zones, for specified authorization levels. A special user number is recorded for entries. Exit requests are granted by a push-button or motion detector.

Each user programmed into the D8112A is assigned an individual authorization level for each of the doors in the system. For example: A user may be authorized for unlimited access at one door, while at another door access may be restricted when the system is armed; at a third door access may be denied entirely, and at a fourth door the alarm system automatically disarms upon entry. The same user can use the same access card for other D8112A systems and be assigned different authorization levels for each door in those systems.

Up to 255 users can be programmed into the D8112A Access Control System. Programming options for the Alpha II Command Center give the on-site system manager the ability to add and delete users, and to manually override the programmed time controls on the authorization levels.

## Logger

- 400 Event Memory
- Remote event retrieval
- "Local Only" events
- Log opening/closing by user
- Log entries and denials

When Logger is used, events programmed for transmission to the central station are stored in the D8112's 400 event memory. For each event, the panel remembers the time, date, event, master zone, and primary or alternate phone number called. Through programming options you can keep selected event reports from being transmitted to the central station. The selected events are locally annunciated and are stored in the D8112A's memory. Events that are stored include: alarms, restorals, troubles, openings and closings. Other programming options allow the Logger to record entries and denials by the access control system as well as certain functions entered at Command Centers. The 400 events in memory can be retrieved from the panel with a D9300 Remote Account Manager, or recorded on a Local Printer or CRT terminal.

## Local Printer

- Time and date
- Event (alarm, entry, opening)
- Master zone number with text

The D8112A can record events on a standard serial printer, or CRT terminal, as the events occur. Two formats are available and include the time, date, account number, event, master zone, master zone text, primary or alternate phone number. There is an indication if the message was not transmitted over the telephone line. The expanded format includes system status information, alarm and shunt memory.

## Skeds

- 64 scheduled events (Skeds)
- Over 100 possible functions
- Enable/disable authorization levels on a time basis
- 7 day program by day-of-week
- 365 day program by date
- Holiday schedule options
- Remotely programmable
- User control capability from Alpha II Command Center

The D8112A is controlled by an internal clock that remembers time and date. Each D8112A can operate up to 64 individual Skeds (scheduled events). Each Sked can be programmed to do over 100 different functions Skeds can be programmed to activate doorstrikes during specified time periods and disable access control authorization levels. Additionally Skeds can be programmed for relay control, zone shunting and combination disabling. Each Sked is programmed for a time and either a day-of-the-week schedule, for example Monday, Tuesday, Wednesday, or a date of the year schedule such as July 4, December 25. The on-site system manager can change the time for the Sked if the Sked is programmed for local time editing. Holiday schedules can be programmed into the D8112A, and you can choose to enable or disable individual Skeds during the holiday periods.

## Access Control Accessories

### D8220 Insert Card Reader

Suitable for indoor and outdoor use, this reader features four-wire installation, an integral microprocessor, built-in sounder, and LED indicator.

### D8223 Proximity Readers

The readers use magnetic induction technology to transmit to and receiver from D8236-10 Proximity Cards.

Typical read range of up to 8 inches; includes reader status LED indicators.

#### **D8224 Mini Proximity Reader**

Uses magnetic induction technology to transit to and receive from D8236 Proximity Cards. Five volt power allows easy replacement of Wiegand Readers. Includes reader status LED indicators.

#### **D8210 Wiegand Interface**

Provides an interface to the D8112A from Wiegand output devices, D8223 and D8224.

#### **D8114 Quad Serial Output Module**

Has four serial data outputs. Provides isolation between devices connected to the D8112's terminal 31. Eliminates possible interference caused by tampering with serial data wiring. Each output supports serial data devices in the same manner as the D8112's terminal 31. Because the D8114 has four outputs, *four wire runs using maximum wire lengths can be connected.*

**D8230-25** Magnetic Stripe Cards (25/Package)

**D8236-10** Proximity Cards (10/Package)

**D8240-25** Magnetic Stripe Photo I.D. Cards (25/Package)

#### **D1252A Command Center**

Remote arming station/command center. Features an alpha-numeric annunciator display and speaker capable of several audible tones.

#### **D360 Command Center**

Remote arming station/command center with LED annunciator display.

#### **D8129 Octo-Relay Module**

Provides eight Form 'C' dry contact relay outputs for a variety of programmable responses to alarm, trouble and other system conditions. Features automatic operation for access control systems. Can be operated on a time-scheduled basis using Skeds, and manually operated from the D1252A Command Center.

#### **D8131 Printer/CRT Interface Module**

Provides either RS232 or current loop output for printer and/or CRT for on-premises recording of Logger events.

#### **D5200 Bar Code Programmer**

Provides on-site programming for D8112 and other Radionics products.

#### **D9300 Remote Account Manager**

Provides Remote Programming capability for D8112 and other Radionics products. Also used to retrieve events stored in D8112's "Logger" memory, from a remote location.

## **D8112A Control/Communicator Specifications**

#### **Voltage Input**

Primary: 16.5 VAC 40 VA class 2 plug-in transformer

Secondary: 12VDC 7AH rechargeable battery

#### **Auxiliary Power Output**

1 Amp at 10.5 to 14 VDC (continuous supply)

Switched Aux Power: Current drawn from auxiliary voltage supply, may be interrupted (switched off) momentarily from the command center.

#### **Alarm Power Outputs**

Steady or Pulsed: 2 Amps at 10.5 to 14 VDC supplied on alarm. Output may be steady or pulsed.

Alternate Alarm: Current drawn from alarm power output (2 Amps at 10.5 to 14 VDC).

Silent Alarm: Current drawn from alarm power output (2 Amps at 10.5 to 14 VDC).

#### **Telephone Connections**

One TelCo Line: RJ31X or RJ38X jack can be interfaced with the D8112. RJ38X allows phone cord supervision. Phone line supervision for either jack is programmable.

Two TelCo Lines: Install Radionics D128 Dual Phone Line Switcher for two phone line service. Supervision supplied.

#### **Current Requirements**

Idle: 125 mA

Transmitting: 250 mA (maximum)

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