

M O O S E

P R O D U C T I N F O R M A T I O N B U L L E T I N



Z2000 PLUS SECURITY SYSTEM CONTROL



- **16 zones expandable to 64**
- **99 user codes with 15 levels of authority**
- **128 event history log with name tags and local printer option**
- **8 true partitions with schedules**
- **Innovative false alarm immunity features**
- **2-wire smoke detector zone – handles up to 20 ESL detectors**
- **Scheduled outputs**
- **Supervised bell output**
- **Temporal code for fire alarms**
- **Power limited**

The Moose Z2000 Security System Control is designed to meet the needs of a wide range of applications, from residential to large commercial. The easy programmability and built-in intelligence of the Z2000 allow it to be subdivided into eight fully independent partitions, controllable from a master keypad or from eight separate keypads.

The false alarm reduction features of the Z2000 including zone verification for both fire and burglary zones and the intuitive nature of the Z2100 LCD ensure a minimum of alarms caused by installation challenges or user errors. Program options such as delayed burglary reporting, automatic interior off, and audible lockout promote a sense of trust expected from a reliable security system.

continued

Moose Z2000 Security System Control

The basic Z2000 is equipped to monitor 16 fully programmable, supervised zones. The standard 10 programmable outputs may be set to respond to any of 161 conditions generated by area(s) activity or keypad or card reader. The two on board form C relays may be activated by any system output. System expansion is achieved via a common high speed parallel polled data bus. All system devices including zone and output expanders, keypads, card readers and printer interface are connected to the same parallel data bus. All devices may be wired up to 1000' from the control using standard alarm wire. Due to the nature of the data bus, T-tap and daisy chain connections are allowed. Zones are expanded in groups of eight to a maximum of 64 using a total of 6 zone expansion modules. Programmable outputs are expanded in groups of ten to a maximum of 50. Additionally, each zone expander module contains 8 zone status outputs which brings the maximum total outputs to 98.

The Z2000 supports 8 keypad addresses. Keypads or card readers will have a unique supervised address which allows a different personality for each unit.

Up to 99 user codes or access cards with 15 levels of authority allows system managers to structure a tiered level of access and security privilege based on real needs of the user and security requirements of the owner. A system of 8 schedules may also be employed to limit access to areas during specific days of the week and specific hours and minutes of those days.

A similar schedule may control selected outputs to turn on and off at selected times of the day to automatically control lighting or building temperature.

The Keypad

The Z2100 LCD keypad provides a 48 character English menu-driven user interface which enables the system operator or programmer to easily take advantage of the system's many features. All system information is understandable due to a unique "name tag" applied to all users, zones, areas and keypads. The last 128 events stored in the event log may be viewed via the LCD of the keypad or printed on site using the Z2400 parallel printer interface and standard parallel printer.

Special zone types add to the flexibility of the Z2000 including the innovative Sentry Test Burglary zone which requires a walk test of specific zones before the area may be armed. This helps prevent unrecognized blocking of PIR type sensors. Universal zones allow the use of 2 built-in timers. These timers may be used to activate lights or adjust room temperature when activity is detected via PIR sensors or to set "request to exit" output to release a door strike or mag-lock. A special "fast re-

sponse" zone is available for sensors requiring a "pulse stretcher" response.

Programming

The Z2000 may be programmed via the Z2100 keypad or by the new RPM/2 PRO remote program software operating on a standard PC and modem over the telephone lines. RPM/2 PRO makes programming easy, fast and error free.

An accurate built-in digital voltmeter and ammeter provide important information to the installer or service person and allows total load calculations to be made for commercial fire systems.

Commercial Fire (UL864)

For commercial fire installations where a UL 864 listing is required, the Z2000F Security Control kit is recommended. The Z2000 can accommodate a variety of 2 and 4 wire smoke detectors and provides a unique zone test display which is quite useful during periodic tests.

Innovative False Alarm Immunity Features

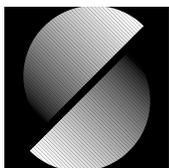
- **Cross zoning**
- **Zone verification**
- **Auto interior off**
- **Programmable communicator delay**
- **Loop stabilization**
- **Audible lockout**
- **Swinger lockout**

ORDERING INFORMATION

Model Number	Description
Z2000	Alarm Control Panel with transformer: 16 zones expandable to 64.
Z2000F	Alarm Control Panel: 16 zones expandable to 64. Red can, fire kit, Z2100 LCD keypad, and transformer.
Z2000 BO	Board only.
Z2100	LCD Keypad; Downlighting and LCD backlighting; 48 character LCD display with emergency buttons and menu. English prompts; 4 soft feature keys; 3 panic keys. Nominal current drain: 75-200 mA (depending on lamp setting).
Z2200	LED Keypad; Simple arming station for smaller applications and single area operation. Ready, Armed Trouble, and Alarm indications and three emergency keys. Nominal current drain: 25 mA.
F2590	Commercial fire kit F2500, CR860, AR101, AE912
F2600	Transformer cover
F2500	Commercial fire phone line/bell module for Z2000
CR860	Dual battery harness
AR101	Telco accessory, relay (phone line 2) for Z2000
EB1511	Auxiliary battery enclosure 15" x 15"

SPECIFICATIONS

Inputs and Outputs	
16 zones expandable to 64 (zone expansion via zone expander modules)	Recommended battery 12 V DC, 7 Ah minimum lead acid
2-wire and 4-wire smoke detector circuit	Auto system shutdown if voltage falls below 8.5 V
10 programmable outputs expandable to 50 (output expansion via Z2350 zone expander)	Physical Characteristics
Up to 8 keypads may be connected	Metal enclosure 14" (35.6 cm) H 14" (35.6 cm) D 3.5" (8.9 cm) W
4-wire high speed data bus	Z2100 LCD Keypad 6.82" (17.3 cm) H 4.72" (12.0 cm) W
2 form "C" SPDT relay (5 Amp DC)	Z2200 LED Arming Station 6.82" (17.3 cm) H 4.72" (12.0 cm) W
Environmental Limits	Color of Z2100 and Z2200 Bone white with gray labeling
Operational temperatures +32°F to +122°F (+0°C to +50°C)	Surface mounts to any standard single or double gang electrical box.
Keypads—Electrical	ACR505 Card Reader with Keypad 2.70" (6.86 cm) H 3.00" (7.62 cm) W 1.54" (3.91 cm) D
Z2100 LCD Keypad 75 - 200 milliamp nominal current drain (current depends on lamp setting)	Listings UL 365, UL 609, UL864, UL 985, UL 1023 UL 1610, UL 1635, UL 1637
Z2200 LED Keypad 25 milliamp nominal current drain	
ACR505 Card Reader with Keypad 50 milliamp nominal current drain	
Reporting formats Contact ID, SIA, 3/1, 4/2, pager dialer option	
Power Supply	
18 VAC, 50 VA transformer input	
13.8 V DC nominal output, 1.5 Amp continuous auxiliary current	
Main board draws approximately 100 milliamps	



SENTROL

CORPORATE HEADQUARTERS

12345 SW Leveton Dr., Tualatin, OR 97062

Tel.: 503.692.4052 Fax: 503.691.7566

<http://www.sentrol.com>

U.S. & Canada: 800.547.2556

Technical Service: 800.800.2027

FaxBack: 800.483.2495

Sentrol reserves the right
to change specifications
without notice.

©1998 Sentrol

X-3250-FLG10K-02/98
Printed on recycled paper