Z1250 SECURITY SYSTEM CONTROL

UL LISTED

- **12 zones expandable to 44**
- **10 outputs expandable to 50**
- **99 user codes with 15 levels of authority**
- **Expanded communicator reporting capabilities**
- **128 event history log and local printer option**
- **8 true partitions or areas**
- **Easy programming by keypad or upload/download software**
- **PTC solid state circuit breakers**
- **Easy plug-in, removable board**
- **ON/OFF power switch for AC and battery**
- **Supervised bell output**
- **Temporal code for fire alarms**
- **Power limited**

The Moose Z1250 Security System Control provides medium to high level security for residential fire and burglary installations as well as commercial burglary applications. With a superior multiflex design, the Z1250 features a modular plug-in circuit board that can be used to easily upgrade existing Z1100 installations.

The Z1250 is equipped with 12 fully programmable zones, each supervised with a 2200 ohm end-of-line resistor. Utilizing a four-wire high-speed data bus, the Z1250 can communicate with up to eight keypads and 4 eight-zone expanders, providing a maximum of 44 zones and 50 outputs all fully programmable. In addition, zone 12 may be used as a two-wire smoke detector zone. An optional 1800 ohm end-of-line resistor is available for supervision in this application. Zone 12 can handle up to 20 ESL 429 smoke detectors.

Equipped with a 900 mA power supply, the Z1250 provides more than enough power for typical auxiliary devices, including: keypads, zone concentrators, a printer interface, PIRs, glass break and smoke detectors, and other modules and sensors. Furthermore, the Moose power supply is NOT battery dependent, so it supplies stable power even after extended power outages while charging a completely dead battery.

Moose Z1250 Security System Control

The Z1250 uses the latest version of RPM/2 and the Sentrol 44 PSM software for programming. RPM/2 is widely regarded in the industry as one of the easiest security programs to use requiring less than a minute to make basic program modifications. It takes less than five minutes to download a complete 14 menu system program.

The Z1250 is reader-ready for the Moose ACR505 insertion card reader and the Moose ACC25 MAG-STRIPE cards. Each card is pre-programmed with a unique user code. With up to 99 user codes, and 15 levels of authority, users can provide their visitors or service personnel with permanent or temporary access with their own card, without compromising security in other areas. In addition, expanded reporting capabilities allow the system to keep track of all authorized or unauthorized arrivals and departures at a central monitoring station.

The Z1250 allows the user to recall and display the last 128 system events, by user and event, in plain English. Hardcopies of the event log may be obtained via an optional parallel printer interface.

SPECIFICATIONS

Control Board

12 fully programmable zones, expandable to 44

- each supervised with 2200 ohm end-of-line resistor
- optional: zone 12 two-wire smoke zone with 1800 ohm end-of-line resistor

Three keypad activated panic keys per area

Nominal current drain for board only 100 mA

Superior six stage lightning/transient protection

Two general purpose Form C SPDT (5 A DC) relays

10 alarm and control outputs, expandable to 50

24-hour battery monitoring

Automatic system shutdown if voltage falls below 8.5 volts

Operating temperature inside enclosure:
32° to 120° F (0° to 49° C)

Keypads – Electrical

Z2100 LCD Keypad ...... 75 - 200 milliamp nominal current drain
(current depends on lamp setting)
Z2200 LED Keypad .... 25 milliamp nominal current drain
ACR505 Card Reader with Keypad .... 50 milliamp nominal current drain

Power Supply

Full 1.5 amp, 16.5 VAC, 35 VA input

13.8 VDC nominal output, 2.5 Amp bell power

900 mA continuous auxiliary current

Reverse polarity protection on battery inputs

Up to 400 mA available for battery charge

Float charging circuit 13.8 VDC

Over-current protection on outputs for keypad power and auxiliary power with PTC solid state circuit breakers

Recommended battery (not included): 12 VDC, 7 Ah minimum, sealed lead acid. Two 12V, 7Ah sealed lead acid batteries may be used.

Digital Communicator

DTMF Touchtone or rotary (pulse) dialing

Rotary speed 10pps
(60/40 make/break or 767/33 make/break)

Transmission formats include: SIA Level 1; BFSK and Pulse Formats (4=2, two-line extended, single line extended, hexa-decimal reporting); slow (10 or 15 baud) and fast (20 or 40 baud); and Contact ID

Transformer

TI635 UL Listed Class II plug-in, 16.5 VAC, 35 VA secondary, 120 volt, 60 Hz primary connected to 24-hour unswitched outlet.

General

20 gauge locking metal enclosure

6 stage lightning protection

Physical Characteristics

Metal enclosure .... 14" x 14" x 3.5" (35.6 x 35.6 x 8.9 cm)
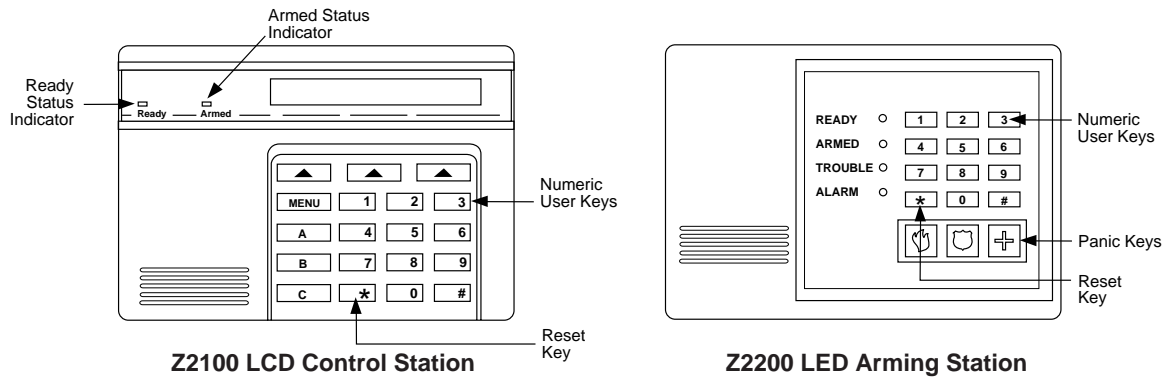
Z2100 LCD Keypad .... 6.82" x 4.72" (17.3 x 12.0 cm)
Z2200 LED Arming Station .... 6.82" x 4.72" (17.3 x 12.0 cm)
ACR 505 .... 2.70" H x 3,00" W 1.54" D
(6.86 cm x 7.62 cm x 3.91 cm)

Color of Z2100 and Z2200: Bone white with gray labeling.

Surface mounts to any standard single or double gang electrical box.

UL Listings: 1637, 1023/985, 1610, 1635, 1609 and 365

CSFM: Household Fire

Z2100 LCD Control Station

Z2200 LED Arming Station

ORDERING INFORMATION

Model Number	Description
Z1250ST	Control panel with Z2100 keypad and transformer.
Z1251ST	Control panel with Z2100 keypad.
Z1250	Control panel with transformer.
Z1251	Control less transformer
Z1250 BO	Board only for easy retrofit of Z1100 family of controls.
Z1251RPK	Upgrade Kit: Z1250 board; Z2100 circuit board, keypad label for retrofit of Z1100ST and Z1100e controls.
MSD Deluxe	Moose sales demo deluxe. Contains Z2100, Z800IC, and Z800RE keypads.
MSD Z1220	Moose sales demo for Z2000, Z1200, and Z1250. Contains a Z2100 keypad.
Z2100	LCD control station; Downlighting and LCD backlighting; 48 character LCD display with English prompts; 4 soft feature keys; 3 panic keys.
Z2100RPK	Upgrade kit, circuit board for Z1100ST control station and label.
Z2200	LED arming station; four LEDs: Ready Armed, Trouble and Alarm; supports up to 99 users; for simple arming/disarming of single partition.
Z2300/Z2350	Zone concentrators: expands the control with 8 additional zones. Z2350 also provides 10 additional programmable outputs. Nominal drain: Z2300 consumes 40 mA; Z2350 consumes 45 mA. Maximum four Z2300s or Z2350s per system.
Z2400	Parallel printer interface module.
ACR505	Magnetic card reader. Insertion card reader with keypad. Not to be used on UL listed systems. (ACC25 magnetic stripe cards available in packs of 25.)
TC1100	Tamper resistant enclosure with extra high security cover for UL commercial burglary listed applications.
F2600	Transformer enclosure.
EB1511	Auxiliary enclosure: 15" x 11" x 4" enclosure with cam lock allows wall mounting of auxiliary devices.
HCP-12SUL	Power supply: 12 VDC power limited output.
CR860	Dual battery harness: allows connection of additional 12 VDC, 7Ah sealed lead acid battery.
AE912	Raucous sounder: current consumption: 28 mA @ 12 VDC. UL listed.
MA-2	Piezo sounder. Low current less than 25 mA.
MPI206	Low current sensitive relay, Form C, wet or dry contact.
MPI266	Low battery cutoff module. Disconnects battery if voltage drops below 7.5 VDC.
RPM2, PSM244	Upload/download software for computer programming.
TS-2	Right had terminal strip
TS-5	Left hand terminal strip