

**THE ULTIMATE INTEGRATED SYSTEM**

**Ness M1 – 208 Zone control panel & Automation Controller**



**INTELLIGENT INTEGRATION FOR**

- Security
- Automation
- Lighting
- HVAC
- Access Control
- Telephone

***“M1 will allow you to apply technologies  
you could previously only imagine”***

# M1

# Cross Platform Controller

## M1 FEATURES

- Large zone capacity, expandable to 208 zones.
- Two Way Listen-in interface.
- Flash Memory - Allows field updates to firmware.
- RS-232 serial port to interface to Computers and other devices (expandable to 8).
- Time/Date stamped 512 event history log.
- Menu driven keypad programming - no manual required!
- Voice announcement of alarms, zone descriptions, status, etc.\*
  - 500+ Word/Phrase Vocabulary.\*
  - Link up to 6 words/phrases per announcement.\*
  - 10 custom recordable words/phrases.\*
- 13 On-Board Outputs: 1 voice driver/siren, 1 siren driver/voltage, 1 Relay, and 10 voltage outputs - expandable to 208 outputs.
- Includes Fire alarm verification routine.
- Can be partitioned into 8 separate areas and accounts.
- 199 User Codes (4 or 6 digit) with assignable authorities.
- Arm levels: Away, Stay, Stay Instant, Nite, Nite Instant, Vacation.
- Plug-in terminals make service and pre-wire simple.\*
- Hardware "watchdog" and nonvolatile EEPROM memory.
- Supervised phone line.
- Supervised alarm output.
- Supervised power supply overcurrent.

## COMMUNICATIONS

- True V.22 bis Modem for fast reliable upload/download.
- Optional Ethernet port for user operation, programming.
- Built-in Telephone Remote makes any phone a keypad.\*
- Integrated Voice Dialler uses vocabulary or custom word/phrases.\*
- Digital Dialler: SIA, Contact ID, 4 + 2, and Pager.\*
- Installer telephone (buttset) test feature.
- Ness-RP PC programming software includes conflict resolution to easily highlight differences between control and PC. Connection methods include: Dial-up (including automatic answering machine bypass), ethernet, or local from RS-232 port or house phone jack.

## AUTOMATION & INTEGRATION

- Create lifestyle enhancing comfort, convenience, and security.
- Logic programming with Ness' powerful "Whenever/And/Then" RULES Programming allows almost any imaginable operation. No need to chain rules together. Any single "Whenever" event can have one or more ANDs and THENs (conditions and commands).
- Rules utilize easy to understand text based references.
- Control lighting using RS-232 serial or 2-way Power Line Control (PLC) ports for On, Off, Dim, All On, All Off commands.
- Sunset/Sunrise calculation and activation / onboard astronomical clock.
- Transmit and receive custom serial ASCII strings.
- Read Temperature Sensors and communicate with Thermostats.
- Turn on Tasks, Lights, Outputs via Keypad or Telephone Remote or via the Ethernet Interface and "Virtual Keypad".
- IR integration to control any device that supports IR remote control, (air con, CD, DVD, TV etc).
- Networks with a broad range of other systems.

## POWER SUPPLY

- Heavy duty - 2.5 Amp power supply w/ 1.5 Amp continuous.
- Dynamic battery test.
- Master power switch and Low battery disconnect.
- PTC (fuseless) resettable overload protection.
- Multiple auxiliary power terminals.

## USER INTERFACE CHOICES



### TOUCH SCREEN

Control security and automation functions such as arm/disarm, view event Logs, control lighting, view & adjust thermostats, activate tasks, turn devices on & off, make custom setting changes, access your favourite website, picture albums, music and other media all from the Ness superbright 7" Touch Screen.

Up to 32 can be connected to an M1 system.



### LAPTOP / PDA

Get total control of your entire system with easy to use installer's and user's management software.

Direct connect via serial port for fast installer access or connect via M1 Ethernet Interface and LAN for powerful user functions.

The versatile mobile PDA option provides unprecedented power and convenience in the palm of your hand.



### KEYPADS

Three Ness M1 keypads are available to provide choice for both the installer and the user.

All keypads have highly functional backlit keys with adjustable intensity and time/date display.

Up to 16 keypads can be installed on any M1 system. The Ness S/F keypad even has a recessing kit option for that extra flush look.

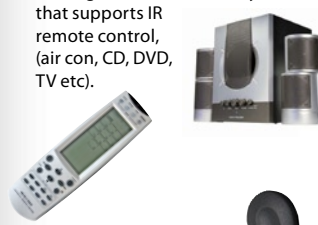


### ADD PROXIMITY READERS TO ANY KEYPAD



### IR REMOTE CONTROL

IR integration to control any device that supports IR remote control, (air con, CD, DVD, TV etc).



### 2 WAY VOICE

Listen in and speak via your M1 control from any telephone using the optional 2 way voice feature. For alarm verification, talkback, industrial monitoring and general domestic use.

### INTERNET INTERFACE

The Ness Ethernet Interface allows you to view a secure "virtual keypad" of your M1 system via an internet connection.

Log-in using an internet enabled computer and view, change, turn outputs on/off, arm/disarm from anywhere in the world. Also supports full programming of the system via Ethernet as well as email on events.



### ACCESS CONTROL

The M1 access control option allows arming/disarming and door access via optional prox readers added to M1 keypads or Ness proximity readers interfaced with the system.

### TELEPHONE CONTROL\*

Dial in with your mobile phone for easy arming and disarming, operate lights, outputs all with voice feedback.



### RADIO KEYS

Optional radio interfaces provide the convenience of wireless remote control arming and disarming and panic functions as well as wireless motion detectors and other detection devices.

\*SOME FEATURES ARE NOT AVAILABLE ON ALL MODELS.



# Ness M1, "More Than Just Security"

## Ness M1 – 208 Zone control panel & Automation Controller

**Intelligent integration for Security • Automation • Lighting • HVAC • Access Control • Telephone**

**THE NESS M1G AND M1-EZ8 OFFER UNEQUALLED VALUE TO SYSTEM INTEGRATORS, INSTALLERS, and END USERS.**

Unlike panels that may be strong in automation but weak in security (or vice versa), the M1 boasts a rock solid security foundation with the most imagi-

native and powerful automation functionality available.

Integrators and Installers will value the flash memory firmware, RS-232 serial port, ethernet connectivity option, fast PC programming, and ease of installation.

End users will welcome the quality and futuristic capabilities of the versatile keypad, voice telephone dialler and the built-in telephone remote. The 500+ word vocabulary pleasantly announces system status, configurable in any sequence to alleviate user intimidation.

M1 offers the flexibility to integrate industry standard systems and components for easy upgrades and system expansion. In addition to the powerful digital dialler, the M1 has a built-in voice dialler, which can call any phone, on or off site, including a mobile

phone. Remote telephone control capability allows you to perform tasks; such as, change the temperature setting, control the water heater, lower the garage door, set lighting scenes, arm/disarm the system, control sprinklers, and more by simply picking up the phone – any phone.

# AUTOMATION

## POWERFUL AUTOMATION

The Ness-M1, together with the Ness-RP Automation Programming software offers powerful, easy to setup and manage, life style enhancement features.

The automation programming allows mixing and matching of lighting components, outputs (relays or voltage), thermostats, temperature sensors, and all the security inputs and features to integrate functions that add value and appeal to the owner/user/manager.

Whenever/And/Then rules can be set to turn on and off

in response to a time or day, a certain sensor, or the arm/disarm status of the system. Outputs can be set to control door strikes, irrigation sprinklers, circulating pumps, valves, outdoor signage, refrigeration etc.

Automation tasks can also be driven by the built-in astromic clock which calculates sunset/sunrise depending on your geographic location and also takes daylight savings into account.

You dream it, M1 does it!

### HVAC



HEATING / COOLING  
RCS, Aprilaire, etc

### Whole House Automation



HOME THEATRE / DVD / AUDIO  
Crestron, AMX, Control 4 etc

### Lighting

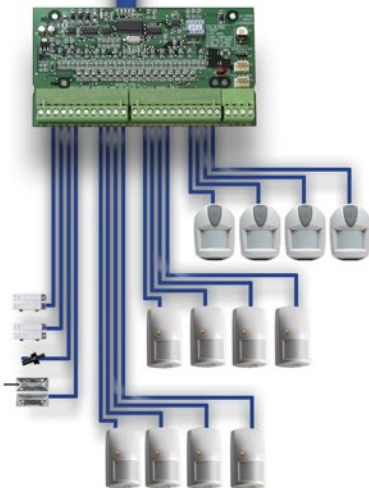


LIGHTING CONTROL  
C-Bus, Dynalite, iControl, X10, UPB etc

## HIGH LEVEL INTERFACES

## HIGH SPEED 128-BIT ENCRYPTED FULLY SUPERVISED DATA BUS

### INPUT EXPANSION



### SECURITY SYSTEM

M1 can be expanded up to 208 inputs using up to 12 add-on Input Expanders.

Each input can be programmed to be Normally Open, Normally Closed, End Of Line, High Security 4 State End Of Line or Analogue to suit a huge variety of detection and sensing devices such as motion sensors, mechanical contacts, fluid level sensors, gas sensors, smoke detectors, temperature sensors and many more.

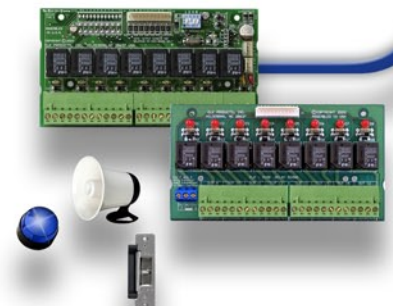
Up to 12 Input Expanders, each with 16 zones can be added anywhere along the 4 wire data bus.

The high end security features include multiple user codes, multiple area operation and multiple arming levels such as Away, Stay, Stay Instant, Night, Night Instant, Holiday mode and other combinations.

The onboard telephone dialler is capable of reporting alarm events to a central monitoring station and/or several private telephone numbers such as mobile phones.\*

### OUTPUT EXPANSION

- SPRINKLERS
- FRONT GATE
- SIREN
- GARAGE DOOR
- STROBE LIGHTS
- MACHINERY
- ELECTRIC LOCKS
- INDUSTRIAL CONTROLS



16 ZONES  
ONBOARD  
EXPANDABLE  
TO 208 ZONES

# SECURITY

# M1 ACCESS CONTROL

## TOTAL BUILDING INTEGRATION

**SECURITY • ACCESS CONTROL • BUILDING MANAGEMENT**

10,000+ Access Control Doors • 50,000+ Users • 32 Areas • 1000+ Inputs

Up to four M1 systems can be networked and interface with the Ness IDTeck suite of powerful access control systems.

The range includes everything from a standalone single door controllers to networked systems up to 10,000+ doors.

There are many integrated security and access control features available such as denying access to a user if an M1 security area

is armed and the user does not have security system disarm rights, regardless of the user's access control time schedule and access level. Once the area is disarmed, the user with the right access level will now be granted access.

The powerful and user friendly *Ness Starwatch* application software suites provides provide total solutions for access control and security management tool, time

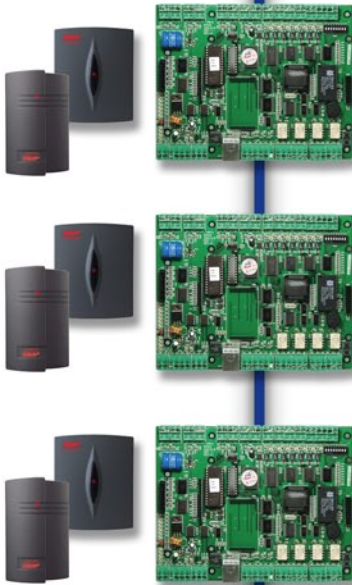
attendance, site management, lift control and centralised user management.

The standard Ness Starwatch software includes user management of both access control credentials as well as M1 security codes. It includes alarm graphics for quick identification of alarm points, access doors and security areas control both for alarm event identification as

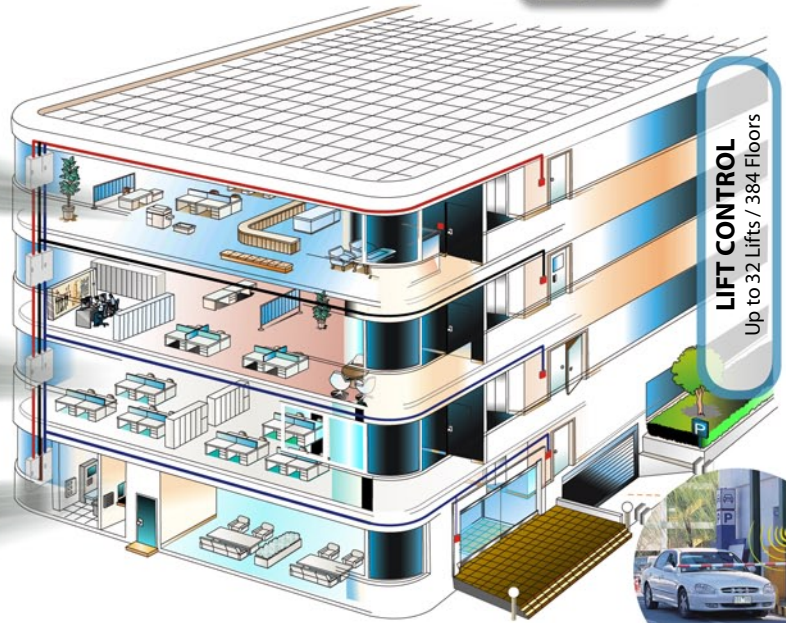
well as user control of these points. It also includes comprehensive report generation of access control and security management events from IDTeck controllers and Ness M1 systems.



Bus connection to M1 via RS232 or TCP/IP



2 OR 4 DOOR INTELLIGENT CONTROLLERS



LIFT CONTROL  
Up to 32 Lifts / 384 Floors



**CARPARK MANAGEMENT**  
• Access Control • Entry / Exit counting • Carpark Full display

### NESS STARWATCH SECURITY MANAGEMENT SOFTWARE

Link up to four M1 systems for integrated access control functionality.



Graphic maps for event and user control.



Event and alarm logging.  
Access control and M1 security event logging.



User Management of access control and M1 security PIN numbers.

User reports of access, alarms and M1 system events.

Your M1 Dealer



Security Products

[www.ness.com.au](http://www.ness.com.au)

