

THE ULTIMATE INTEGRATED SYSTEM



208 Zone control panel & Automation Controller



*"M1 allows you to apply technologies
you could previously only imagine"*

M1 FEATURES & BENEFITS

- 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 astronomic 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.

*Some features may not be available on all models



INTELLIGENT INTEGRATION FOR

SECURITY • AUTOMATION • LIGHTING • HVAC
• ACCESS CONTROL • TELEPHONE



M1 KEYPADS

A variety of Ness M1 keypads provide choice for both the installer and the user.

All keypads have programmable function keys, backlighting with adjustable intensity and time/date display.

Up to 16 keypads can be installed on any M1 system. The Ness KP2 keypad even has a recessing kit option for flush mounting.

M1 NAVIGATOR

M1 Navigator touch screen keypad features a touch sensitive 3.5" LCD colour display with bright, easy to use graphic icons and softkeys which makes it simple to operate Security Zones, control Outputs, Lights, Automation and easily change custom settings.



INTERNET INTERFACE

The optional M1 Ethernet Interface gives you facilities for programming, monitoring and control over LAN or internet.

Use a smartphone or tablet* to control security and automation functions, view, change, turn outputs on/off, arm/disarm and much more.

M1 also supports full programming of the system by PC using ElkRP software as well as email on events.

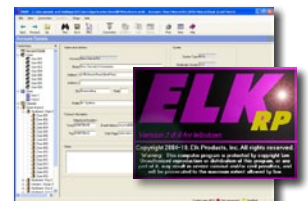
* Requires an optional ethernet interface and eKeypad app from iTunes. iPad/iPhone not included.



Control via smartphone or tablet*



Customised automation with the eKeypad Blueprint module*



PC based programming support for installers with ElkRP software

WIRELESS OPTIONS

One or more optional M1-RF radio interfaces on the M1 bus provide the convenience of wireless remote control arming and disarming and panic functions as well as wireless motion detectors and other detection devices. Supports up to 144 radio devices.



ACCESS CONTROL

M1 has built-in support for access control using prox cards and fobs for arming/disarming and door access.

Each KP2 or KP3 keypad can interface to one weigand reader or use the optional 101-246 M1-KAM single door access control modules on the M1 bus.

Security, Automation & more

Ness M1 – 208 Zone control panel & Automation Controller

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

NESS M1G OFFERS 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 imaginative

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.

Users will welcome the quality and futuristic capabilities of

the versatile keypads, 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 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 phone or optionally by internet using a smart-phone or tablet.*

POWERFUL AUTOMATION

The Ness-M1, together with the ElkRP 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 astro-nomic clock which calculates sunset/sunrise depending on your geographic location and also takes daylight savings into account.

You dream it, M1 does it!

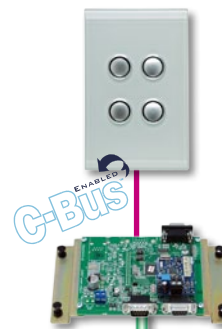
HEATING / COOLING

Communicating
Thermostats



LIGHTING CONTROL

2 way C-Bus, Dynalite,
iControl, X10, UPB ...



IP INTERCOM

Ness SmartBell



M1 RS485 BUS

LAN

EXPANDABLE SECURITY SYSTEM

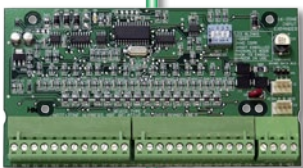
M1 can be expanded up to 208 inputs using up to 12 add-on Input Expanders.

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.*



16 ZONES ONBOARD

Expandable to 208 Zones & 208 Outputs

NESS-PUSH INTEGRATION

Optional integration with the PUSH controller allows you to master virtually any device, system or appliance including your Ness M1 system.



View and control your TVs and Hi-Fi systems



Control Air Conditioners and Heaters



Full control of your home theatre and even electric curtains



Control your Lighting for energy savings



Control your security system locally or remotely



ACCESSORIES

	101-502 M1 Navigator Touch Screen Keypad		101-206 M1-DBHR Active Data Bus Hub		101-251 M1-EZ8 Serial Interface
	101-256 M1 KP2 LCD Keypad low profile keypad		101-208 M1-G Accessories Kit Inc P/Supply, 12V 7Ah Batt, Phone Lead. As supplied with M1 kits		101-298 Surge Suppressor as supplied with M1 Kits
	101-255 M1 KP3 LCD Keypad with flap		101-201 M1-G Controller only. As supplied with M1 kits.		101-215 M1-XEP Ethernet Port Bus Expander / Interface
	101-226 M1 Arming Station		101-244 Ethernet to RS-232 Serial Port Bridge		101-540 CoolMaster HVAC Interface (Daikin, Sanyo, Toshiba, Mitsubishi, Hitachi)
	101-259 Flush mount kit to suit 101-256 KP2 keypad		101-229 M1-ZTS Zone Temperature Sensor & Interface		101-230 M1-ZTSR Zone Temperature Probe & Interface with 2m Lead
	101-246 M1KAM Single Door Access Control Module		101-258 M1-RF Radio Interface		101-295 M1 WSV Water Shutoff Valve
	101-214 M1-XSP Lighting / Thermostat / Serial Interface		101-236 M1 C-BUS Interface V3		101-297 Ness Water Sensor 12VDC Operation, Relay Output
	101-210 M1-XIN 16 Zone Input Expander		101-217 M1-TWK 2 Way Listen-in Kit inc Speaker / Mic / TWI Interface		101-260 Ness Curtain Control Kit inc Motor, IR RX, Power Supply, Mounting kit
	101-212 M1-XOVR 16 Output Expander, 8 Relay, 8 Voltage		101-218 M1-TWM 2 Way Listen-in Microphone Board only		101-262 129 Voice Recording Computer Recordable Interface
	101-213 M1-RB Relay Board, 8 x C.O. contact relays		101-219 M1-TWS 2 Way Listen-in Microphone & Speaker		101-263 124 Recordable 8 Channel Voice Module
	101-207 M1-DBH Data Bus Hub		101-216 M1-TWI 2 Way Listen-in Interface		101-264 120 Recordable 4 Channel Voice Module & Siren Driver

ORDERING INFORMATION



K-1002 M1-GOLD 14" KIT includes:
 1 x 101-201 M1G PCB, manuals, kit bag, terminal blocks
 1 x 101-500 14" Metal Housing
 1 x 101-208 Power Supply & Battery Kit
 1 x 101-268 14" Tamper Kit
 1 x 101-298 Power Surge Suppressor

Add up to 16 keypads per system.
 Keypads sold separately.

Internet connection requires optional 101-215 M1-XEP Ethernet adapter.
 iPhone/iPad/Smartphone not included.
 eKeypad app can be purchased from iTunes.
 M1 kits, keypads, accessories and interfaces are sold separately.



K-1003 M1-GOLD 28" KIT includes:
 1 x 101-201 M1G PCB, manuals, kit bag, terminal blocks
 1 x 101-501 28" Metal Housing
 1 x 101-208 Power Supply & Battery Kit
 1 x 101-267 28" Tamper Kit
 1 x 101-298 Power Surge Suppressor

Add up to 16 keypads per system.
 Keypads sold separately.

Your M1 Dealer



Innovative Electronic Solutions

www.nesscorporation.com

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