Omni II™
AUTOMATION

The Omni II is an automation controller with integrated security for homes and small businesses. The system provides enhanced comfort, safety, convenience and energy savings by coordinating lighting, heating and air, security, scenes and messaging based on lifestyles and schedules. At the heart of the Omni II is HAI's Advanced Control Programming (ACP) which allows installers and owners to set schedules and actions performed by the system.

Omni II comes with several standard modes, such as Day, Night, Away and Vacation, and can accept customized scenes such as "Good night", "Good morning" or "Entertainment" that set temperatures, lights and security to the desired levels with one touch. Security and temperature sensors can be used to adjust lights, appliances and thermostats, monitor activity and track events. The home can be controlled and programmed by the dealer or the homeowner, on-site or from a remote location. Easy to read LCD consoles show status and allow control and scheduling of lighting, security, temperatures and accessories.

Omni II has a built-in serial interface for connection to the Internet via HAI Web-Link II, personal computers and options like touchscreens, voice recognition and home theater controls. Omni II features telephone accessibility from within the home or a remote location with clear voice menus for convenience and simplicity. The built-in digital communicator reports alarm events to a central station and can dial up to 8 additional phone numbers chosen by the home owner for voice notification.

An ideal and economical choice for homes and small businesses, Omni II is the middle member of HAI's best-selling Omni product line. It supports numerous Omni family accessories, including a complete line of fully communicating thermostats. Omni II is the 5th generation controller from HAI - the company that's been leading the industry since 1985.

AUTOMATION FEATURES

- Controls up to 72 different lights, appliances or groups: 64 via power line carrier control modules or optional ALC hardwire lighting modules, 8 hardwired to Omni II controller
- Temperature control for 4 HAI Omnistat thermostats
- Omni II sends time, outdoor temperature to thermostats for display
- Time, Sunrise, Sunset, outdoor temperature display
- Status display (On, off, level, mode, heat, cool, fan, temperature, etc.)
- Temperature control for other items or existing thermostats using

up to 8 Temperature Sensors or PESMs
- 2-Way X-10 and ALC allows Omni II to receive signals for use as program triggers, features collision detection and retry for reliability
- Lights can be set to scenes of varying brightness, with Level, Ramp and Scene Support for architectural quality lighting control
- Lights, control outputs, temperatures and security modes can be scheduled by time, sunrise, sunset, and date or day of week and various system events.
- 500 lines of non volatile ACP program storage

- Commands (immediate and scheduled) include:
    - on, off, dim, brighten, level, (and ramp rate for ALC)
    - timed on, off, dim, bright
    - change settings, mode, fan for one or all thermostats
    - change system modes, zone status, flags
    - say, display or place a call with a message
    - activate a button (macro)
    - scene select

- Supports HAI Pro-Link, which allows two-way serial communications with other controllers using ASCII messages
- Event button capability ("Scenes" or "macros") allows a series of commands to be executed at once, to create lighting scenes, house modes, adjust temperatures, etc., initiated by:
    - a console, computer or telephone command
    - a zone opened or closed
    - a mode change (i.e. day, away, vacation)
    - a particular user code entered
    - a time schedule, sunrise, sunset
    - other internal or external events

- Enhanced ACP includes new commands for "real time pricing" of energy costs, and allows two conditionals per line for easier programming

- Automatic Daylight Saving Time adjustment

- Expansion port for future SCP, UPnP, LonWorks or other interface

SECURITY FEATURES

- 16 Zones, expandable to 48 zones:
    - supports two 10A06 16 zone hardwire expanders
    - HAI supervised wireless receiver (16 zones)
    - full selection of security zone types, keyswitch
    - outdoor temperature, energy saver module
    - temperature control and/or alarm
    - auxiliary input for automation use (without security)
    - all zones support 4 wire smoke detectors
    - zone 1-4 support 2 wire smoke detectors

- 8 Hardwire Outputs, fully configurable for:
    - control output for automation
    - temperature control
    - long range radio
    - armed, OK to arm, and others

- LCD Consoles
    - surface, flush and universal models available.
    - 4 wire connection, independent operation, 8 maximum.
    - configurable beeper, viewing angle, backlighting

- True Partitions: security and automation can be partitioned into 2 areas
- Five modes: off, day, night, away, vacation
- 16 user codes with selectable authority levels
- User codes can be made valid during certain times and days only, for maid, service, etc.
- All lights on when alarm is tripped to frighten intruder away
- Outdoor lights flashing when alarm is tripped to alert neighbors and police
- Entry, Exit, outdoor sirens delays user programmable
- Entry delay can be doubled or quadrupled on a zone to accommodate garage and back doors.
- Pre-alarm beeper in console and separate indoor siren output gives owner time to turn alarm off before outdoor siren is activated
- Two separate, supervised outputs for indoor and outdoor sirens
- System Announces type and location of alarm with optional 2-Way Voice Module
- Auto bypass feature means alarm won't go off unexpectedly if door or window is left open when the system is armed
- Trouble conditions indicated in English on display
- Phone line monitor
- Optional wireless receiver is fully supervised for greatest reliability
- High Security mode for commercial applications
- All Fire and Burglary zones are fully supervised
- Event Log with Time & Date

TELEPHONE CONTROL FEATURES
- Works with Touch Tone phones inside or away from the premises with access code
- Compatible with answering machines, answering services
- From any phone, you can:
    - change modes, temperatures, macros
    - arm/disarm security, bypass and restore zones
    - hear complete status of system
    - hear event log and help menu
- Lockout feature discourages tampering with system by phone
- Listen-in / talk to premises with optional two way voice module

DIGITAL DIALER FEATURES
- Contact ID, 4/2 and 3/1 formats, dual round compared
- Two phone numbers with two account numbers
- Opening/Closing reports by user code

VOICE DIALER FEATURES
- Completely solid state, no tape or moving parts to wear or break
- Voice dialer is delayed by 5 minutes if digital dialer is used to allow central station to call back
- Dials up to 8 user programmable numbers and reports type and location of alarm
- Called party can cancel dial out by entering code
- Omni II can call pagers, and be programmed to make a voice call based on a non-alarm event (example: call when children arrive home; call if "no activity" for elderly care)

RELIABILITY FEATURES
- Designed for continuous trouble-free operation
- Verifies smoke detectors by cycling power and confirming smoke alarm
- System reads resistance of each zone independently to detect trouble due to faulty sensor or wiring before it causes false alarms
- Fuse-less, short-proof design
- Programmable delay to preclude false alarms from user error

- All inputs and outputs protected against static, RFI, surges, and lightning by use of impedance limits, spark gaps, TRANZORB surge arrestors, RC filters, MOVs, bypass capacitors and grounded shields
- Watchdog timer, non volatile EEPROM storage for ALL programs, self diagnostic software, low voltage cut out, self protecting power supply for system integrity

EASE OF USE FEATURES
- Text descriptions for all zones, units, codes, and macros
- Voice descriptions on telephone
- Console display shows menus to guide users during use
- Minimum keystrokes for common functions
- Quick mode change feature
- Optional wireless keyfob for arming and control available
- Web Browser Graphical Display (HAI Web-Link II) available

TECHNICAL
- Power supply: Requires 24 VAC transformer, 50/60 Hz
- Recommended battery: 12 V, 7 Ah sealed rechargeable

COMPUTER INTERFACE
- Built in Omni-Link or Pro-Link serial interface, with jumper for RS-232 or RS-485. Can be used for programming, connection to HAI Web-Link II, personal computers and Connectivity Partner options
- Built-in v.22 bis fast modem for local or remote (with security code) access to system using personal computer
- Everything in Omni II can be programmed using HAI PCAccess software for personal computer

OPTIONS
- HAI Web-Link II Internet and Local Area Network software (Windows)
- HAI PCAccess configuration, monitoring and programming software (Windows)
- Supervised Wireless Receiver, 2-way voice module.
- Additional Serial Board
- 16 Zone hardwire expansion card
- ALC Hardwire Lighting Control Module

APPROVALS
- UL Residential Fire and Burglary
- UL Commercial Burglary
- FCC (USA)
- ICCS-03 (Canada)
- California State Fire Marshall
- CE(Europe): Electromagnetic Compatibility, Emissions and Immunity

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