GEM-P1664 Series:
8 to 64 Zone Hybrid Hardwire/Wireless Controls
Suitable for EN50131-1 Installations

The GEM-P1664 Series hardwire/wireless control panel with partitioning ideal to standardize on for both residential & commercial applications!

Features:
- 8 to 64 hardwire/wireless zones (including two 2-wire fire zones)
- Programmable partitioning for up to four areas
- Up to 64 users
- Supports full range of reliable NAPCO Wireless crystal-control transmitters– proven to outperform leading competitive brands in independent tests!
- Choice of custom alphanumeric, digital and icon keypads
- Temperature display on keypad (with optional temperature sensor), shown at left.

Two configurations for every application requirement:
- GEM-P1664EX model suitable for use in EN50131-1 Installations (wall mount transformer not included).
- GEM-P1664EX-230 model suitable for use in EN50131-1 CE installations. Unit is CE marked and includes internally mounted 230V transformer.

NAPCO manufacturing ensures product quality and is ISO9001: 2000 certified
The GEM-P1664 Hybrid 8 to 64-Zone Control/Communicator features 8 zones expandable to 64 zones with multiplexing and supports proven, reliable, NAPCO crystal-control transmitters and uses advanced helically-filtered receivers, too. Supporting up to 64 user codes and 16 relays, the GEM-P1664 comes in two configurations suitable for ENS05131-1 and/or CE installations. This Gem control features easy “Self-Programming Plus” keypad programming (for all zones), which includes new alpha keypad question-prompts, even for setting test timer, fire zones and exit/entry and follower zones. Additionally, the panel can be remote up/downloaded using easy-to-use NAPCO Quickloader Software (V5.0 or greater) with true Windows-style functionality, including cut/paste, drop/drag, etc.

FEATURES
• 8 Hardwire/Wireless Zones on board
• Up to 64 zones with multiplex expansion including 2 two 2-wire fire zones
• With multiplexing, can accommodate up to 64 EOL zones (from custom alpha keypads or multiplex modules)
• EZ Programming2 More comprehensive, menu-driven programming for all zones plus test timer.
• Up to 64 user codes
• Up to 4 areas
• 3 on-board outputs, up to 16 external relay outputs (RM3008a).
• Up to 2 NAPCO helically-filtered, crystal-control RF receivers
• Interior bypass group with programmable automatic interior bypass
• 600 event log
• Auto Arm
• Uses up to 7 of any of the Classic/RP- or K-Series Stay & Away keypads
• Programmable telephone line cut supervision with delay
• 3 Keypad panics (F, P, A)
• Supports all major communicator formats, including: 4/2, 5/1, 4x2 and Point ID, plus pager.
• Backup,double/split reporting; three 20-digit telephone numbers
• Dynamic battery test
• Reports alarms, restores and troubles by zone.
• 2 programmable entry delay times
• Chime by zone
• 8 EOL burglary zones programmable for area, E/E delay, interior, follower, day zone, chime, fire options, sensor watch, swinger shutdown, cross zoning, etc.
• Supports series zone doubling and Loop supervision using double EOL resistors (feature requires use of GEM-EZM4/8 Multiplex Modules)
• Multiplex Expandability with GEM EZM4/8 or GEM EZM8 zone expansion modules
• Quickloader up/downloading, including unique unattended method
• Choice of RF receivers
• Partitioning by area
• Event log with open/close suppression
• Event log viewable at keypad (total log, burglar alarm log, fire alarm log, system trouble log, o/c log)
• Cellphone-style keypad programming of zone descriptions (text)
• Programmable 50Hz Clock Setting
• Programmable Daylight Savings Time
• Programmable Security Bypass (code required for bypass)
• Un-Bypassing while disarmed (code required)
• Temperature Display at Keypad (-30 to 60°C Celsius or -22 to 140°F Fahrenheit) with optional GEM-TEMP64 Indoor/Outdoor Temperature Sensor (Note: Keypad Temperature Display replaces Date on Display)
• Programmable High/Low Temperature Alarm Reporting (requires feature enabled; zone 6)
• 24 hour day zone trouble
• Programmable security blocking of keypad display messages—Informational displays made visible contingent on user’s assigned area(s) within system
• Programmable Swinger Shutdown (2 or 3 activations – selectable)
• Zone outing/Cross Zoning (Grouping of zones in which sequential zone activation is required to generate an alarm)

SPECIFICATIONS
• Environmental Classification: Class I (+SC to +40C), Class II (-10C to +40C) and Class III (-25C to +50C)
• Input power: 15.6VAC via Class 2 plug-in 20VA, 40VA or 50VA transformer
• Loop voltage: 10-13VDC
• Loop current: 32.5mA with 2.2k ohm EOLR; 5mA for 2-wire fire
• Loop resistance: 300 ohm max., 50 ohm max for 2-wire fire
• Aux & remote power: 12VDC regulated (11.7 to 12.5VDC)
• Maximum Combined standby current: 650mA
• Maximum Alarm current: 2A
• Programmable negative outputs: 2
• Loop response 750ms, programmable 50ms to 2,000ms
• POWER (With Type A Power Supply):
  Grades 1 and 2 Installations with 4Ah battery: Maximum combined standby current: 210mA
  Grades 1 and 2 Installations with 7Ah battery: Maximum combined standby current and alarm current: 650mA
  Grades 1 and 2 Installations with 7Ah battery: Maximum combined standby current: 460mA
  Grades 3 installations (requires 7Ah battery): Maximum combined standby current: 110mA

ORDERING INFORMATION
GEM-P1664EX Control Panel suitable for use in ENS05131-1 Installations (transformer not supplied).
GEM-P1664EX-230 Control panel, as above, prewired with transformer (included) suitable for use in ENS05131-1 CE installations. (CE marked. PCD2000 NAPCO QUICKLOADER® Up/ Downloading Software For panel programming, requires version 5.0 or greater. (Windows-based).
GEM-RP1CAe2 Deluxe Custom Alphanumeric Dual-Line Display Keypad with built in 4-Zone Expansion Module. Classic NAPCO user functionality. (New Black and White Decorator Styling). (Firmware Version 9A+)
GEM-K1CA, as above, with STAY and AWAY user functionality. (Firmware Version 9A+)

GEM-TEMP64 Optional temperature sensor, for use with either of the two keypads above, programmable for celsius or fahrenheit. Indoor or outdoor temperature display at keypad.
GEM-RP2As62 Alpha/Icon Keypad (Version 7 firmware+ support required).
GEM-K2AS, as above, with STAY and AWAY user functionality. (Version 7 firmware+ support required).
GEM-RP3DTGL Digital Keypad (Version 3 firmware+ support required).
GEM-K3DTGL, as above, with STAY and AWAY user functionality. (Version 3 firmware+ support required).
GEM-EZM4/8 Multiplex Module for 4 to 8 zones expansion (supports series zone doubling and loop supervision using double EOL resistors).
GEM-EZM8 8-Zone Multiplex Module

Choice of NAPCO Wireless Receivers & Full Range of NAPCO GEM or Libra Wireless Transmitters (consult manual for selection for your region's frequency):
GEM-K4RF-SPAN Spanish Language version of above. Note: Other language versions, also available: Call NAPCO International Sales for info.
LIBRA REC255-433 255 point receiver
LIBRA REC8-433 8 point receiver
LIBRA-REC16433 Wireless 16 Point Receiver
LIBRA-REC64433 Wireless 96 Point Receiver
LIBRA-TRAN433 Wireless Door Contact
LIBRA-PIR433 Wireless PIR
LIBRA-KEYF433 Wireless KeyFob
LIBRA-SMK433 Wireless Smoke Detector
LIBRA-GB433 Wireless Glass Break Sensor
GEM-REC255 Wireless Receiver, 96 Zones
GEM-REC96 Wireless Receiver, 96 Zones
GEM-REC16 Wireless Receiver, 16 Zones
GEM-REC16 Wireless Receiver, 96 Zones
GEM-REC16 Wireless Receiver, 16 Zones
GEM-REC8 Wireless Receiver, 8 Zones
GEM-TRANS2 Window/Door Transmitter, 2-Pt
GEM-RTRANS Recessed Window/Door Transmitter
GEM-KEYF Key Fob Transmitter
GEM-SMK Wireless Smoke Detector
GEM-PIR Wireless PIR
GEM-PIRPET Wireless Pet Immune Transmitter
GEM-DT Wireless Dual-Technology Sensor
GEM-GB Wireless Glass-Break Detector
WI1388 Instruction/Programming Manual
WI1386 Instruction/Programming Manual with RP1/K1 Keypads
WI1418 GEM-EZM4/8 Zone Expansion with GEM-P1664 Control

GEM-PIPCONTROL50 Below maximum allowed

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