

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. **CE**



NAPCO manufacturing ensures product quality and is ISO9001: 2000 certified

GEM-P1664 zone hybrid control

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 8 16 relays, the GEM-P1664 comes in two configurations suitable for **EN50131-1** 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 Programming 2 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 (RM3008s).
- 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, SIA, 4+2 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 Anding/Cross Zoning (Grouping of zones in which sequential zone activation is required to generate an alarm)

SPECIFICATIONS

- Environmental Classification: Class I (+5C to +40C), Class II (-10C to +40C) and Class III (-25C to +50C)
- Input power: 16.5VAC via Class 2 plug-in 20VA, 40VA or 50VA transformer
- Loop voltage: 10-13VDCdc
- 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
- Burg. voltage output: 1
- 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
Maximum combined standby current and alarm current: 650mA

Grades 1 and 2 installations with 7AH battery:
Maximum combined standby current is: 460mA
Maximum combined standby current and alarm current: 500mA

Grade 3 installations (requires 7AH battery):
Maximum combined standby current is: 110mA
Maximum combined standby current and alarm current: 500mA

ORDERING INFORMATION

GEM-P1664EX Control Panel suitable for use in EN50131-1 Installations (transformer not supplied).

GEM-P1664EX-230 Control panel, as above, prewired with transformer (included) suitable for use in EN50131-1 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-RP2ASe2 Alpha/Icon Keypad (Version 7 firmware+ support required).

GEM-K2AS, as above, with STAY and AWAY user functionality. (Version 7 firmware+ support required).

GEM-RP3DGTL Digital Keypad (Version 3 firmware+ support required).

GEM-K3DGTL, 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 Fixed English Language Display Keypad with 32Pt. Built-in Wireless Receiver (Version 2 firmware+).

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 REC255-433 8 point receiver

LIBRA-REC16433 Wireless 16 Point Receiver

LIBRAREC96433 Wireless 96 Point Receiver

LIBRA-TRANS433 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-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



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Preliminary specifications subject to change.