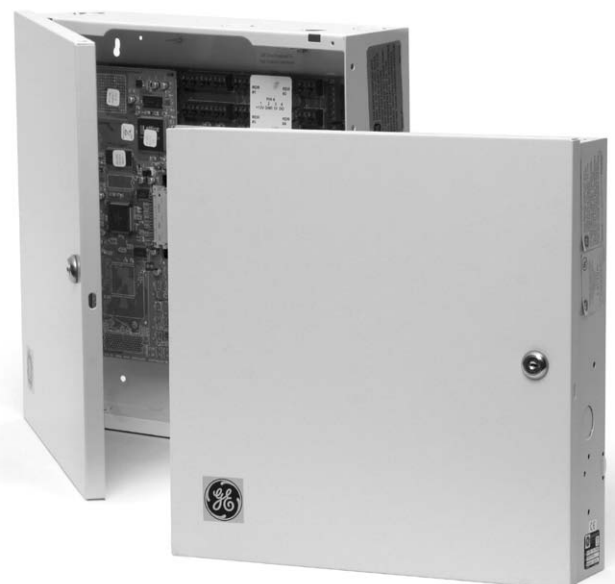## Overview

The M2000 enclosure from GE Security provides the convenience of a pre-configured enclosure for GE's PX/PXN/PXNplus CPU boards that work with Picture Perfect™ and Secure Perfect® access control software. A sturdy, all-steel cabinet and key lock secure the components inside. Plus, a tamper-switch-protected door alerts users if the enclosure is forced open. The M2000 includes an internal power supply with battery backup.

Standard Features

- Designed for PX/PXN/PXNplus CPU boards
- Compatible with Picture Perfect and Secure Perfect
- Pre-configured with four reader ports, 10 digital inputs and eight relay outputs
- Rugged all-steel enclosure with key lock
- Removable cover with tamper switch
- Screw terminal connector plugs for error-free maintenance
- Internal power supply with battery backup
- FCC, Class A and CE compliant
- Optional micro/reader junction box for Picture Perfect and Secure Perfect security management systems

M2000 Enclosure

for Picture Perfect and Secure Perfect security management systems

Configuration Options

The M2000 enclosure includes the M2000 interface board with the commonly used configuration of four reader ports, 10 digital inputs and eight relay outputs. That gives users an easy and economical choice when they don't need the flexibility of the M5 and M3000 enclosures.

With a PX/PXN/PXNplus CPU board installed, the M2000 can support up to four card readers, 10 alarm points and eight relay outputs. It can also handle as many as seven downstream microcontrollers, with each group of eight microcontrollers supporting up to 64 card readers. The M2000 can work with any combination of M5 and M3000 enclosures in both Picture Perfect and Secure Perfect systems. It can also be installed downstream from a PX/PXN/PXNplus microcontroller.

Easy Installation and Maintenance

The M2000 enclosure is easy to configure and maintain in the field. All boards plug into the microcontroller backplane, and the M2000 uses screw terminal connector plugs for all wire connections– virtually eliminating wiring errors during field maintenance, so service is fast and reliable.

Specifications

Physical Dimensions	14 in (356 mm) x 14 in (356 mm) x 3.5 in (84 mm)
Operating Temperature Range	+35 to +122 ºF (+2 to +50 ºC)
Relative Humidity	5% to 95% (non-condensing)
Thermal Air Cooling	At least 6 in (15.2 cm) of clearance is required on all four sides of the controller enclosure
Construction	Cold rolled steel
Finish	Gray baked enamel paint
Weight	18 lbs

Power (Door Strikes Powered Separately)	
Power Supply	110 or 230 VAC to 18 VDC transformer included, 7AH gel-cell backup battery included
Controller Power	Provided transformer meets all power requirements for this device
Power Dissipation	50 watts maximum

Expansion	
Total Number of Available Slots for Reader, Input or Output Boards	Not Applicable

Boards and Devices (Standard and Optional)	
PX-2000	Maximum one PX-2000 Interface Board interface board which includes support for: • Four readers, either F/2 or supervised F/2F reader communications (Maximum rating of each reader port power is 300mA for total power output of 1.2 amps) • Ten supervised digital input points; includes supervised resistors (20 each, 1K ohms)
Output Devices	• Four reader outputs: 0.10 @ 12 VDC maximum • Eight general purpose digital outputs with relays, 2 amps @ 40 VDC or 30 VAC maximum
Power Communications Board	Not Applicable
2 RP Board	Not Applicable
2SRP Board	Not Applicable
8 RP Board	Not Applicable
CK8RP Board	Not Applicable
20 Digital Input Board	Not Applicable
16 Digital Output Board	Not Applicable
16 Digital Output with Relays Board	Not Applicable
External Modem	• Optional, 110 VAC – 420173001 • Optional, 230 VAC – 420173002 • Optional, micro powered (PX CPU) – 450224001
Internal Modem	Optional, PXNplus CPU only – 521247001
Rack Mounting Kit	Not Applicable

Regulatory Information	
Agency Approvals	• FCC Class A • UL 294 • UL 1076 • CE

Notes
• A door strike relay is supplied in the optional micro/reader junction box.
• Battery backup provides up to four hours of microcontroller and reader operation under nominal conditions; proximity readers reduce battery life.
• Backup power for door strikes must be supplied separately.

Ordering Information

M2PMPP1	Picture Perfect M2000 PXNplus, 110 VAC, 10/100 MB Ethernet
M2PMSP1	Secure Perfect M2000 PXNplus, 110 VAC, 10/100 MB Ethernet
M2PMPP2	Picture Perfect M2000 PXNplus, 230 VAC, 10/100 MB Ethernet
M2PMSP2	Secure Perfect M2000 PXNplus, 230 VAC, 10/100 MB Ethernet
M2KRDPP1	Picture Perfect M2000 PX 110VAC, direct and dial-up
M2KRDSP1	Secure Perfect M2000 PX 110VAC, direct and dial-up
M2KRDPP2	Picture Perfect M2000 PX 230VAC, direct and dial-up
M2KRDSP2	Secure Perfect M2000 PX 230VAC, direct and dial-up
M2KRLPP1	Picture Perfect M2000 PXN, 110 VAC, 10/100 MB Ethernet
M2KRLSP1	Secure Perfect M2000 PXN, 110 VAC, 10/100 MB Ethernet

M2KRLPP2	Picture Perfect M2000 PXN, 230 VAC, 10/100 MB Ethernet
M2KRLSP2	Secure Perfect M2000 PXN, 230 VAC, 10/100 MB Ethernet
M2PBMPP	Picture Perfect M2000 PXNplus, Ethernet, electronics assembly, PXNplus CPU + I/O board
M2PBMSP	Secure Perfect M2000 PXNplus, Ethernet, electronics assembly, PXNplus CPU + I/O board
M2KBDPP	Picture Perfect M2000 electronics assembly, PX CPU + I/O board
M2KBDSP	Secure Perfect M2000 electronics assembly, PX CPU + I/O board
M2KBLPP	Picture Perfect M2000 PXN, Ethernet, electronics assembly, PXN CPU + I/O board
M2KBLSP	Secure Perfect M2000 PXN, Ethernet, electronics assembly, PXN CPU + I/O board

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