

ErgoAlarm MCP Main Control Panel

PRODUCT SPECIFICATIONS SHEET

Description

The Control Panel Model MCP is an ErgoAlarm wireless, battery operated security system control panel. The control panel is designed for residential and small commercial security applications where video verification is needed or desired.

The control panel is powered by eight 1,5-volt alkaline batteries that last up to four years, with normal system activity. A built-in siren provides status beeps. The embedded cell modem communicator reports to the monitoring station and enables 2-way voice communication over cell to the monitoring station.

A dual-tamper function is active 24 hours, whether or not the system is armed. An alarm occurs if the control panel cover is removed, or if the control panel is removed from the mounting surface.

With the embedded touchpad the user can arm, disarm the system and review past events and system status. Under the TouchPad an integrated proximity card reader that can be used to arm and disarm the system without using the TouchPad. The proximity card/tag arming system is designed to maximize operator convenience.

Supervised Wireless Technology

The MCP, along or with all Ergoalarm devices utilize Spread Spectrum, Interactive, AES Encrypted Wireless technology, providing optimum signal integrity and security. Bi-directional RF communication paths between all system devices and the system control panel assure high signal reliability.

Integrated antennas eliminate protruding wires or rods cumbersome to install and unsightly to consumers, and if damaged could lead to potential system communication problems.

The panel supervises every device (excluding the remote keyfob) to validate current open/close state, tamper condition, serial number, date of manufacture, firmware revision, and battery status..



TECHNICAL SPECIFICATIONS

Electrical Data

Power requirements	Eight 1.5V batteries
Battery type	Alkaline, D size, LR20
Battery life	4 years
RF technology	
Radio type	Spread Spectrum Bidirectional RF
Operating frequency	868/915/920 MHz
Transmission security	AES algorithm encryption
Radio jam detection	Yes
Supervision	Yes
Antenna	Integrated
Tamper detection	Wall and cover tamper detection
Siren output	105 dB @ 1 meter
Siren duration	programmable, 3 minutes maximum
Programming	Alphanumeric Keypads or remote control Software
Devices per system	19 per system
Access codes	20 maximum
Installer codes	One (for system programming only)
Security levels	3
Arming modes :	2
Special arming modes	4 (Area 1 predefined from factory for entry/exit delay. Areas 2, 3, & 4 programmable.)
Communication formats	Voice, Email or IP
Communicator type	GPRS and GSM cell
2 way-voice	Full duplex, bi-directional
Dialing	DTMF
Protocols	
IP stack	IP, TCP/IP, HTTP, SMTP, PPP
Voice alarm transmission	NO
Voice server	NO
Remote maintenance	Downloader protocol only
Video transmission:	By protocol to central monitoring station
Video format	MPEG V1.0 video file
Video file size	220 Kbytes
Video framing	5 frames/second
Image format	JPEG
Image size	320 x 240 pixels
History/Event Log	4,000 events stored in flash memory
Operating temperature	0°/+40°C (32°/104°F)
Maximum relative humidity	70%, non-condensing
Approvals	CE / EN50131 / EN300220 / INCERT / IDA / NCP (Europe) CP-01 / UL / FCC (USA) A-Tick (Australia)

Physical Data

Material	ABS—ULV0
Dimensions	225 mm x 180 mm x 55mm (LxWxD):9in. x 7in. x 2-1/6in.
Weight	520gr (without batteries) / 1600gr (with batteries)

Installation/Mounting

Control Panel/Base	One screw secures control panel cover to base; four screws secure control panel base to the wall
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Embedded touchpad Data

TouchPad to arm/disarm the system with event display
Automatic back light
3 arming keys / symbols
3 panic buttons
Event symbols
Embedded voice speaker and microphone
No specification mentioned on Proximity Card arming/disarming



Control Panel ERGOALARM MCP

Compatibility The MCP works with all the following ERGOALARM wireless devices:



Indoor VideoViewer

- integrated PIR motion detector, night vision digital camera, infrared illuminators. VideoViewers detect intruders and capture a 10 second video of the intrusion which is sent to the panel over RF.



Prox-Tags- allow arming and disarming the system.



Door Contacts- detect door and window open/close activity. An external input allows a wired connection from standard security switches and detection devices outputs.



Outdoor VideoViewer

- integrated PIR motion detector, night vision digital camera, infrared illuminators. MotionViewers detect intruders and capture a 10 second video of the intrusion which is sent to the panel over RF.



Interior Sirens - provide status beeps and alarm sounds throughout the premises where needed.



Exterior Sirens/Strobes - provide alarm sounds and visual identification of alarm site for responding authorities.



Smoke Sensor- enhances protection and uses advanced detection technology. The Smoke Sensor is totally wireless and an integrated addition the whole security system.



Remote Keyfobs- allow limited system operation and panic alarm capability in a portable, convenient package.

Capacities

Each MCP system can manage up to 19 individual devices (VideoViewer keypad, siren, etc.). Each device is assigned to one of four protection areas. Area 1 is predefined from the factory for delayed entry/exit. The other three areas can be configured/programmed as required for the installation. For example, Area 2 could be configured for devices on the main level, Area 3 for devices on the upper level, and Area 4 for devices in the basement.

There are 20 individual access codes that can be four to six digits long. Each access code can be assigned to one of three security levels for specific operating authority. Levels 1 and 3 provide various system operation limits. One installer code allows access to Level 4 which provides the installer/dealer full access for configuration/programming. The installer code is restricted from system arming and disarming.

TECHNICAL SPECIFICATIONS

Configuration/Programming

Complete system configuration/programming can be done on-site using alphanumeric keypads. Easy to understand text on a two line, 16-characters liquid-crystal (LCD) display guides you through programming, prompting you for simple yes/no or data entry responses. Complete punctuation symbols allow for accurate website/IP address entries and device location naming.

Off-site programming is accomplished by using Downloader Software. An IP connection between the control panel and a computer with downloader Software allows operators to configure/program system settings/parameters.

Communication

The MCP reports alarms and other system events using the following methods and formats : Downloader and Voice.

- > Downloader - provides complete system reporting information and video verification to a central monitoring station set up with Monitoring Software.
- > Voice - reports alarms by digital voice to one, two, or three customer-designated phone numbers (office, home, cellular, etc.).

Voice Verification

The panel incorporates a speaker and a microphone. When using a GSM/GPRS simcard, the MCP panel allows the monitoring station to do 2-way voice verification. 2-way voice can be launched at any time when the panel is connected to the monitoring station. During the 2 way voice, data connection and video download is suspended and resumes after the voice communication terminates.

Video Verification

Incorporating VideoViewers into the security system allows for video verification of intrusion alarms. When the system is armed and an intruder trips VideoViewer the integrated camera captures a 10-second digital video clip which is sent to the central monitoring station by the control panel, which can forward them to an alert list.

History/Event Log

The MCP records and stores all system activities and events (armings, disarmings, alarms, access codes entered, system programming changes, etc.) in memory, that cannot be cleared or erased. The log accumulates a maximum 4,000 events.

As additional events occur, the control panel automatically deletes the oldest event. This ensures the most recent events reside in the log.

The history/event log can be viewed using the embedded touchpad, an alphanumeric keypad or downloaded at the central station.

Features

- > Spread Spectrum, Interactive
AES Encrypted Wireless technology provides optimum signal integrity and security.
- > Compatibility - works with all ErgoAlarm wireless devices.
- > Supervision of all devices (except remote keyfob).
- > Tamper detection - 24-hour dual-tamper function provides detection for both cover and wall removal. Control panel also monitors all system device tamper switches.
- > Zones / Devices - 19 maximum.
- > Areas - 4 maximum. Area 1 predefined from factory for entry/exit delay. Areas 2, 3, and 4 can be configured as needed.
- > Access codes - 20 maximum, 4 - 6 digits; one installer access code for on-site programming only.
- > Configuration/Programming - on-site using alphanumeric keypads or off-site using control remote Software.
- > Communication - reports to central monitoring stations using Downloader
- > Video Verification - video resolution of 320 x 240 pixels, 0 lux sensitivity, 5-frames per second for approx. 10 seconds total recording time. 220K MPEG file.
- > History/Event Log - maximum 4,000 events stored in flash memory that cannot be cleared or erased.