

CCUWH Central Control Unit

Description

The CCUWH Central Control Unit (CCU) is used to activate a system via the push buttons on its front panel or through the system software running on a connected computer. The CCU communicates via radio frequency with all of the system's Remote Controller Interface Units (RCIWH). The RCIWH interface with field devices to the Central Control System (CCS) and control outdoor speaker stations and internal SAFEPATH® panels.

Two-Way communication between the CCUWH and RCIWH's insures that you are informed on any changes in status that occur between interrogation periods. The time interval for interrogation is defined by the user. For critical alarms such as a low battery, a warning is immediately reported back to the CCUWH.

Application

The Central Control Unit (CCUWH) is used to remotely activate and manage multiple Evacuation Systems located throughout a facility, military base, or campus environment. The CCUWH communicates with each remote SAFEPATH® unit via radio frequency data transfer, using highly secure Frequency Shift Keying (FSK) signaling technology. SAFEPATH® units are interfaced directly with the CCUWH utilizing proprietary wireless Remote Controller Interface units (RCIWH) installed alongside the SAFEPATH® Evacuation Systems at remote field locations.

The CCUWH provides a fully supervised two-way control communication link with each RCIWH and SAFEPATH®, ensuring that the operator is immediately informed of any system status changes that may occur between supervisory interrogation periods. Critical alarms, including system activation, low battery and system trouble are immediate. Multiple CCUWH units can be configured to assure system redundancy.



Features

- 8 Field programmable digital messages
- Simple front panel controls allow the user to select the activation and address (Total, Group, or Single) using only a few simple steps
- Cancel function to terminate an alarm
- Silent function allows diagnostic testing of speakers
- LCD display guides the user through the necessary steps to activate and report status information
- Desktop microphone to perform live public address
- Includes eight SPST relays and eight opto-coupler inputs to interface with external devices
- Uses Wheelock's advanced and secure FSK protocol for activating and status monitoring
- Configuration program allows the user to construct alarm sequences. Programmable for: Alarm tone types, tone durations, pre-recorded messages, and number of cycles
- The FSK transmissions include a security method to prevent unauthorized activations
- Interface to a conventional radio system, base station or leased line circuit
- Operates on internal UHF or VHF conventional radio to communicate with the speaker or SAFEPATH® Evacuation Systems. Can be upgraded to a trunked radio system of 800 or 900 MHz

Data Integrity

The FSK encoding/decoding data communications format is transmitted over a conventional or trunked two-way RF system. For data error detection and integrity, extended parity check and redundant messaging systems are utilized. Each eight-bit block of information in the message is transmitted along with an eight-bit parity check. If the transmitted data does not match the parity code, the message is ignored, and therefore no remote alarm is detected, greatly eliminating the chances of false activation.

Each data packet consists of three redundant messages to assure that at least one secure message will be received to properly activate the system.

Added data security is obtained by the use of a timed synchronization code, which occurs upon system power-up, but is completely unrelated to the time of day. RCIWH's independently keep track of the unique synch code, along with the CCUWH. If the synch codes between the CCUWH an RCIWH's do not match, activation cannot occur. This prevents someone from "recording" an alarm message and playing it back later with the intention of falsely activating the system.

Optional Features and Upgrades

- **Trunked Radio Upgrade**
Replaces standard radio with an 800 or 900MHz trunked radio to interface with an existing trunked system
- **Lease Line Interface Upgrade**
Replaces conventional radio with a 2 pair (TX/RX) 600 ohm lease line interface.
- **Mobile Upgrade**
Allows the CCUWH to operate in a vehicle
- **CCSWH Central Station Upgrade**
Includes Wheelock Wireless Software Package, Windows Operating System, computer, monitor, printer, keyboard, mouse, cables and multi-outlet strip
- **Rack Mount Station Upgrade**
Includes a vertical rack mount cage, shelves, and glass door which holds the CCUWH, computer equipment, and printer.
- Additional Messages can be added (up to 999 message files)

Ordering and Description Information

Model Number	Order Code	Description	Size	Weight	LCD Display Size	Operating Temperature
CCUWH	9953	Stand Alone Central Control Unit (No Software Required)	6"H x 21"W x 16"D	23 LBS	20 character x 4 line	-20° to 85° C
ENGW-HCCU	9987	Engineering Charge for Stand Alone Central Control Unit				

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