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*URC-830 Universal Receiver
Operational Description*

The URC-830 is a wall mounted external alarm siren and corridor light switching device for use in various resident monitoring sites and applications. The URC-830 will replace the existing method of hard wiring pull cords to corridor lights.

The URC-830 device receives an alarm messages from various resident monitoring devices and turns ON/OFF the corridor light and/or alarm sirens and sends a status or alarm messages back to the AMS system.

The URC-830 has two separate device channels, each with dedicated alarm relay, and separate device list. Each device list can be updated (added or cleared) from the AMS system with special commands.

Additionally each of device list relay can be assigned like a "System Down" alarm relay. Then the device starts to receive a pager messages and can be turn ON/OFF the alarm relay, depending of the received pager message type.

The URC device supports the following commands from the AMS system:

- 1. Clear and Add devices 1 – Command to clear and add the up to three new devices to device list 1;*
- 2. Clear and Add devices 2 – Command to clear and add the up to three new devices to device list 2;*
- 3. Add device 1 – Command to add the up to three new device to device list 1;*
- 4. Add device 2 – Command to add the up to three new device to device list 2;*

5. *Read URC device – command to read the single device (with type and ID) from device list 1 or device list 2;*
6. *Enable/disable system down message – Command to enable or disable the each alarm relay for “System down” message type reception.*

The URC-830 device transmits the following message types: sanity message - each hour, alarm message – approximately each 18-22 seconds, and acknowledge message – immediately after receiving of the command message from the AMS system.

The URC-830 device comprises a 318 or 433 MHz RF transceiver and an integral helical antenna. The unit is powered by a 100-240VAC to 12VDC power adapter and includes an internal 3.6V backup battery.