

Overview

Staff/Duty Station

The GE Model 4A2495 Staff/Duty Station is normally located in any room where staff members may be temporarily working. The station can be preprogrammed to continuously monitor the system, alerting the staff to any patient calls placed within the zone by flashing an LED and sounding a tone.

Duty Station Kit

The GE Model 438-818 Duty Station Kit allows the installation of up to six duty stations to provide tone and light annunciation of calls placed in a ProCare 6000 System. The kit includes the electronics of a zone light mounted onto a plastic one-gang to two-gang adapter plate with plug-in connectors for connection to a self-contained tone-only duty station, and up to five other duty stations within the same area. When a call is placed within the duty station's assigned room range of a 32-station zone, the station's red LED flashes and emits an audible tone at a rate dependent on the priority of the call.

Standard Features

Staff/Duty Station

- Built-In Microprocessor
- Pressure-Sensitive Micro Switches
- Long-Life, High Intensity LED Display
- Plug-In Connection
- Sensitive Speaker/Microphone
- Incoming System Call Tone
- Three-Gang, Semi-Flush Mounted Design

Duty Station Kit

- Economical Duty Tone Application
- Configurable Coverage
- Multiple Locations
- Matching Color and Design
- ESD Protected
- Plug-In Connection

ProCare 6000™ Staff, Duty Stations

Model: 4A2495, 438-818



Application

Staff/Duty Station

A routine staff call can be placed by pressing the STAFF switch, which illuminates the associated LED and the corridor light, and displays the calling station's number at the base console. An additional CODE switch is provided to place a high priority call. This call type can only be canceled by pressing the station's CANCEL switch.

A speaker/microphone allows communication between the room and the base console.

Any time the staff/duty station is selected by the base console for communication, the LED associated with the CANCEL switch illuminates to ensure privacy.

The station's built-in microprocessor controls and prioritizes calls placed from the station and from remote stations within the room. All signals are multiplexed onto the system without using unique wire on a per station basis. The station is continually supervised by the associated central equipment.

Duty Station Kit

The LED continues flashing and the tone continues emitting sound until the call is canceled. The tone high/low level is independently adjusted at each duty station. The duty stations do not count toward the maximum number of 32 stations allowed per zone (ZIU). Optionally a Model 18A430 Zone Light can be provided to visually display the calls by priority. The number of installed 438-818 kits and zone lights should not exceed 16 in any given zone.

Engineers' Specification

Staff/Duty Station

The GE Model 4A2495 Staff/Duty Station shall be located in all rooms where staff may be located temporarily, such as day rooms, waiting rooms, or examining rooms, or as shown on the floor plans. It shall have the following functional controls and physical features:

1. The station shall have a speaker/microphone for hands free, two-way voice communication between the base console attendant and anyone in the room, without requiring the person to direct their voice toward the station or operate any controls. The dynamic speaker/microphone shall have a minimum 2-inch (5.1 cm) diameter cone and ceramic magnet able to produce 80dB, +/-2dB SPL at 4 feet (1.2 m) when a random noise signal of 0.2 watt is impressed on its terminals while the protective grille and coverplate are in place. The signal shall be shaped to produce equal energy between 500Hz and 5,000Hz (voice range) in one-third octave bands to maximize the clarity of two-way voice communications.

2. The station shall have four long-life LEDs and four pressure-sensitive micro switches to control the call placement or system duty functions within the room, including:

- a. A STAFF switch, outlined in white, for placement of a normal staff call to the base console. An associated LED shall steadily illuminate and two beeps shall sound for call placement verification.
- b. A CODE switch, outlined in blue, for placement of a code blue call. If desired, the user shall be able to enter a custom name for this priority at the base console. An associated LED shall steadily illuminate and eight beeps shall sound for call placement verification. A Code Blue Elapsed Timer Start feature shall be included to provide a closed or open contact for external control of a digital timer or similar device when the code blue call is placed.
- c. A CANCEL switch for cancellation of any call placed from the room station. The associated LED shall illuminate steadily and two beeps shall sound any time communications are established between the room station and the base console. Optionally, the CANCEL switch shall also silence the current call tone signal that announces all incoming calls within the area by three different tone priority rates. If the tone has been silenced, the next incoming call shall again sound the tone at a rate equal to the highest call priority. The associated LED shall flash slowly when the current call tone signal is silenced.
- d. A DUTY switch that, when pressed on stations configured as staff stations, shall illuminate the associated LED. Any call placed from another station that is within the same duty area, that has the same base console coverage, or that has the same assigned staff ID number shall flash the LED and sound a tone at a rate associated with the call's priority.
- e. If the station is configured as a duty station, the system duty function shall always be activated, and the associated LED shall remain steadily illuminated. Any time a call is placed from another station, the LED shall flash and the tones shall sound in the same manner as a staff station.
- f. At both staff and duty stations, a distinctive tone shall sound when a call is placed from an associated lavatory station, if required.

3. The station shall be programmed to control itself and associated room devices, such as a remote emergency station and corridor light. The room number shall be user-programmable. Failure of the central equipment, base console, or other stations in the zone shall not affect the normal operation of the signals or lights associated with the room. Continuous supervision per UL 1069, Section 18, shall be provided so that if a staff/duty station fails, the base console shall automatically be notified and the station's number identified for temporary removal from the system. When the station is replaced, the new station shall automatically assume the identity of the failed station.

4. Three auxiliary inputs shall be available for assignment and plug-in connection of external monitoring equipment.

a. [One] [Two] Model 438-761 Remote Auxiliary Input Isolation PCB Kits, each consisting of a 1/4-inch (6.4 mm) diameter jack and its associated isolation network and alarm LED indicator, shall be provided and mounted to a single-gang stainless steel wallplate, and shall be located near the staff station for easy staff access. A dummy plug shall be provided to allow removal of the monitor equipment when not in use.

b. A single Model 438-761 Remote Auxiliary Input Isolation PCB Kit, consisting of a 1/4-inch (6.4 mm) diameter jack with a dummy plug and its associated isolation network and alarm LED indicator, shall be provided and mounted in close proximity to the room monitoring equipment, as shown on the drawings, and permanently connected to the station.

c. Each auxiliary input assembly shall be powered from a separate station power supply, or if an optional Model 437-00109 Isolation Chip is installed, powered directly from the staff station.

d. When the contact closure on the external portable monitor equipment is activated or unplugged from the auxiliary input, a distinct user-programmed priority call, chosen from six possible priorities, shall be placed to the base console, causing the auxiliary input's LED to steadily illuminate and the white section of the corridor light to flash for the device priority selected. The call shall remain in the system until the monitor equipment's alarm circuit is reset.

e. When the contact closure on the room monitor equipment is activated, a distinct priority call shall be placed to the base console, causing the auxiliary input's LED to steadily illuminate and the red, amber, and green sections of the corridor light to sequentially flash in a marquee manner. The call shall remain in the system until the monitor equipment's alarm circuit is reset.

f. Optionally, a Model 9A2125 or 9A2126 Auxiliary Input Station shall be installed and associated with the staff station. Only UL 544 Listed equipment that has maintained, dry, isolated contacts when in alarm mode and that has a standard 1/4-inch (0.64 cm) diameter phono plug can be used with the input stations.

5. The station circuitry shall be mounted on a three-gang chassis constructed of non-conductive, high impact, flame-retardant ABS plastic, rigidly reinforced to prevent breakage if attached to improperly installed backboxes, and to withstand pressure if pulled on. All control surfaces shall be covered by a single laminated overlay to

protect the controls and designations against wear due to continual usage and cleaning solutions. The station chassis shall be 4-1/2 inches (11.4 cm) high and 6-3/8 inches (16.2 cm) wide, and shall extend 9/10 inch (2.3 cm) from the wall surface for mounting into a standard 3-gang, 3-1/2 inch (8.9 cm) deep backbox.

6. A SPDT subminiature relay shall be provided for connection and start control of external devices such as an elapsed timer. When a code blue call is placed from the station, the relay shall be energized and remain energized until the code blue call is canceled. A form "C" make/break contact shall control any external device requiring no more than 75ma via a separate Model 200-1332 three-pin plug-in connector.

7. All external connections shall be made by prewired, color-coded, plug-in connectors for ease of installation, replacement, and maintenance.

8. This product is Listed to UL Standard for Safety, UL 1069, and the appropriate Canadian requirements/standards, by Underwriters Laboratories Inc. (UL).

Duty Station Kit

1. One or more Model 438-818 Duty Station Kits shall be provided for plug-in installation of a single-gang tone-only duty station requiring connection to a zone of a ProCare 6000 System. Each module of duty stations shall operate independently responding to its unique room assignments.

a. A range of sequential room numbers (IDs), up to a maximum of 32, shall be programmable by a set of DIP switches on the kit PCB for assignment of the rooms to the duty station or group of duty stations.

b. When a call is placed from a room within the configured range, the LED on the primary duty station shall flash at a rate dependent on the priority of the call. A different pulsating tone shall be emitted corresponding to the flash rate of the LED.

c. The tone level shall be adjustable to high or low but not off, by means of a pushbutton switch on each duty station.

d. Each kit shall be mounted onto a one to two-gang backbox having a plastic adapter plate of similar color as the station trim ring with a one-gang opening for the plug-in installation of a Model 4A2235A Tone Only Duty Station (ordered separately).

2. Up to five Model 4A2235A Duty Stations shall be purchased separately and located as indicated on the floor plans for parallel connection, and identical operation to the primary duty station.

3. When indicated on the floor plans, a Model 18A430 Four-Lamp Zone Light shall optionally be provided and configured identically to the kit PCB, and located above the duty station module to visually indicate the call priorities by color (white, red, amber, green) and flash rate.

4. The installed station kit shall meet UL 1069 Listing requirements.

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Ordering Information

Model	Description
4A2495	Staff/Duty Station
438-818	Duty Station Kit

Associated Equipment - Staff/Duty Station

RACO #697 (or equal)	Three-Gang Masonry Backbox 3-3/4" (9.5 cm) high, 5-19/32" (14.2 cm) wide, and 3-1/2" (8.9 cm) deep
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Notes: Do not use gangable backboxes of any kind. Adapter plates are available for larger gang backboxes if used.

200-1331	Plug-In Connector (6-pin), part of 438-931 (12 in kit, 1 required)
200-1332	Plug-In Connector (3-pin), part of 438-932 (12 in kit, 1 required)
<i>Note: Two 200-1332 connectors are required if elapsed timer feature is used.</i>	
200-1334	Plug-In Connector (3-pin), part of 438-934 (12 in kit, 1 required)
200-1336	Plug-In Connector (22-pin), part of 438-936 (12 in kit, 1 required)

External Control Options

438-761	Remote Auxiliary Input Isolation PCB Kit (2 maximum)
438-762	Single-Gang Mounting Kit (for one 438-761 PCB)
438-763	Single-Gang Mounting Kit (for two 438-761 PCBs)
9A2125	Auxiliary Input Station (single-gang, for UL 544 Listed devices)
9A2126	Auxiliary Input Station (dual gang, for UL 544 Listed devices)

Associated Equipment - Duty Station Kit

4A2235A	Duty Station—Tone Only (one required, six maximum per kit)
9A2325	Arbitrator Monitor
17A452	Power Supply (flush)
18A430 (optional)	Zone Light
RACO #696	Two-gang backbox, 3-3/8" (8.6 cm) W x 3-3/4" (9.5 cm) H x 3-1/2" (8.9 cm) D

Note: Do not use gangable backboxes.



Duty Station Kit

