

## Overview

The GE ProCare 6000 Patient Station is available as Model 4A2481B Single Patient Station or Model 4A2486B Dual Patient Station. The station is normally located in the headwall of patient rooms adjacent to the bed or between two beds, allowing easy access to the controls. Optionally, the station is used in conjunction with one or two electronic bed communications systems supplied by Hill-Rom® or Stryker® with an interconnection cable and baseboard wall receptacle.

Through these stations, the patient can place one of three predetermined types of patient calls to the base master using an attached pillow speaker/call cord or an electronic bed rail. The base master attendant can respond in person, or can answer and cancel a normal patient call by communicating with the patient through the pillow speaker or bed rail. If the pillow speaker, call cord, or bed is disconnected, a cord out call is placed to the base master and communications automatically revert to the patient station speaker.

Patient privacy is ensured by an LED that illuminates on the station, pillow speaker, and bed rail and by a tone that sounds when the station is selected for intercommunication.

When auxiliary hardware connected to a Patient Station changes state, an auxiliary priority call is placed on the base master based on station-specific priority level programming.

### Note:

Auxiliary hardware must be listed to appropriate safety standards and have an FDA approved or cleared nurse call connection. Auxiliary hardware must have a latching, normally open, dry contact relay, and must also provide a cable that has a standard 1/4-inch (0.64 cm) plug.

Auxiliary hardware is not part of the nurse call system. Before connecting auxiliary hardware to an auxiliary input, staff must be trained and certified in using the auxiliary hardware properly.

## Standard Features

- 3 Gang semi-flush construction and neutral colors easily adapt to most healthcare settings
- Single and dual station configurations support pillow speaker and/or siderail bed communication
- Pressure-sensitive membrane switches
- Simple labeling and color-coded buttons
- Bright red LEDs clearly indicate station's status
- Configurable AUX button provides flexible call option
- Stations support two nameable aux inputs per bed and one nameable aux input per room
- Crystal-clear intercom audio enhances communication between patients and staff
- Durable pillow speaker receptacles designed to withstand heavy use
- Code Blue, Staff Emergency and AUX call capability are standard on every patient station
- UL 1069 Listed

# Single and Dual Patient Stations

ProCare 6000™ 4A2481B, 4A2486B



4A2481B

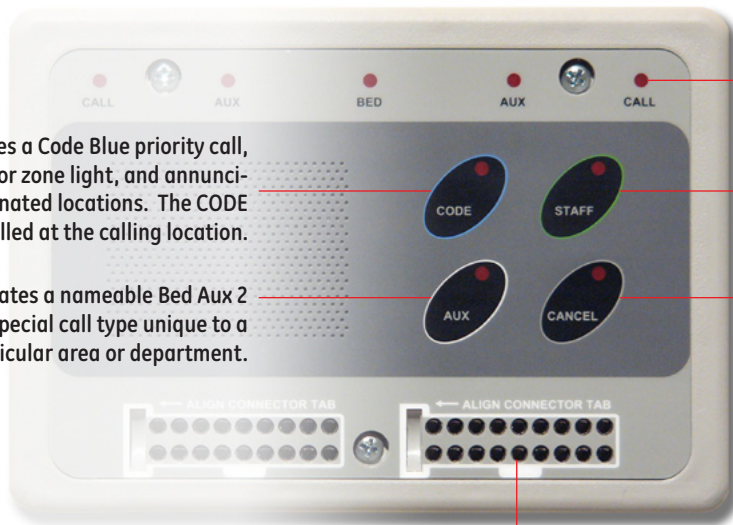


4A2486B



## Operation

The ProCare 6000's Patient Stations offer a wide range of capabilities designed to support practically any healthcare environment. The following features are standard on both the single and dual patient stations:



The blue CODE button initiates a Code Blue priority call, activates associated corridor zone light, and annunciates at one or more designated locations. The CODE LED remains lit until cancelled at the calling location.

The white AUX button initiates a nameable Bed Aux 2 priority call, typically a special call type unique to a particular area or department.

Bright red LEDs clearly indicate station status.

The green STAFF button generates a Staff Emergency priority level call, activates the associated corridor/zone light section, and annunciates at designated locations

The gray CANCEL button cancels any call initiated from this station or any device connected to it.

GE's robust pillow speaker receptacle accepts connection of a ProCare 6000 (or compatible 3rd party) pillow speaker or GE call cord adapter.

## Application

These patient stations provide patients with the ability to place calls and optional control of their TV and room lighting. They can be installed either one per bed or a dual station can be used in a semi-private room.

GE's 4A2481B/2486B can also connect with electronic beds having siderail communication capability, and specialty call devices such as breath call and air call cords.

## Engineering Specification

The GE Model 4A2481B Single Patient Station shall be located in each private room, or GE Model 4A2486B Dual Patient Station shall be located in each semi-private room, as shown on the floor plans, with each bed capable of using a handheld pillow speaker, an electronic bed as manufactured by Hill-Rom or Stryker, or both. The station 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 master attendant and the patient when a pillow speaker or electronic bed communications rail is not used or has been disconnected. Speaker communication shall be achieved without the patient directing their voice toward the station or operating any controls.

2. The station shall have four pressure-sensitive micro switches and seven (for single patient station) or nine (for dual stations) long-life LEDs to control and annunciate patient and staff functions within the room, including:

a. One or two CALL LEDs (depending on single or dual patient station) to display any one of three selected patient level calls when the call button of a call cord, pillow speaker, or electronic bed rail

connected to the station is pressed. The CALL LED shall steadily illuminate and a double beep shall sound for call placement verification, regardless of call level. The CALL LED shall remain lit until the call is canceled. If the call is placed on any of three staff reminder levels when answered, the LED shall slowly flash until the station's CANCEL switch is pressed.

b. A STAFF button, outlined in green, for placement of a staff emergency call. If desired, the user shall be able to enter a custom name for this priority at the base master. 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 CODE button, 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 master. An associated LED shall steadily illuminate and eight beeps shall sound for call placement verification.

d. An AUX (auxiliary) button, outlined in white, for placement of one of seven predetermined auxiliary level priority calls as configured by the user at the base master. The AUX switch's LED shall steadily illuminate, the AUX LED at the top of the station shall flash, and eight beeps shall sound for call placement verification, regardless of call level. This switch shall signal the Bed Aux 2 port of the patient station.

e. A CANCEL button for room cancellation of any call placed from the patient station, any associated code blue and staff emergency calls, and any reminders that have been set.

1. The LED associated with the CANCEL switch shall illuminate steadily and a single tone shall sound any time communications are established between the room station and the staff console or wireless telephone.

2. If the station is so configured, a staff member carrying an IR locator badge or pressing a separate presence station button upon entry to the room shall cause the LED associated with the CANCEL switch to flash slowly.
3. Pressing the CANCEL switch for at least two seconds shall clear any presence set at this station.
4. When a call is placed from another station that is within the same duty area, that has the same base master coverage, or that has the same assigned staff ID number, the CANCEL LED shall flash and the station shall sound a repeating "duty" tone based upon the priority of the call (normal calls = slow flash and tone, emergency calls = medium flash and tone, code blue calls = fast flash and tone). A distinctive steady tone shall sound when a call is placed from the lavatory station within the same room.
5. Pressing the CANCEL switch shall temporarily silence the tone and return the LED to a slow flash rate. If another call is placed, the tone shall again sound and the LED shall again flash.
- f. A BED LED that shall flash to indicate that the electronic bed (or 37-pin pillow speaker) associated with the station has been accidentally or intentionally disconnected from the 37-pin wall receptacle located at the headwall baseboard. The LED shall continue to flash until the bed (or pillow speaker) is reconnected or a dummy plug is inserted in its place.
- g. An AUX LED that shall flash to indicate a call placed as a result of a maintained contact closure from a Room Aux, Bed Aux 1 or Bed Aux 2 auxiliary monitor device in the alarm mode.
3. The single patient station shall have one, the double patient station two, front panel multi-pin receptacles that accept standard call cords (with or without adapters) for placing patient calls, and/or a pillow speaker capable of placing patient calls, controlling the TV set and optional environment lighting, and receiving TV audio. When communication is established between a patient and the master station attendant, TV audio shall be interrupted.
4. The single patient station shall have one, the dual patient station two, rear panel multi-pin receptacles that accept Model 438-537B 8-foot (2.4 m) plug-in cables for connecting up to two Hill-Rom or Stryker electronic beds to the patient station via Model 9A2137A 37-pin wall receptacles mounted approximately 6 inches (15.2 cm) above the floor.
5. When a pillow speaker and an electronic bed are connected to the station, the two-way voice communications, TV audio, and functional controls shall operate simultaneously and in parallel through both the pillow speaker and bed rails. If a call cord, pillow speaker, or electronic bed is disconnected, a cord out priority call shall be originated, the CALL LED shall steadily illuminate, and communications shall automatically transfer to the patient station speaker.
6. The station shall be programmed to control itself and its associated room devices, such as the lavatory station and corridor light. The room number, bed number, and call priority shall be user-programmable from the staff console. Failure of the central equipment, master station, 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 patient station fails, the master station shall automatically be notified and the station's number identified for temporary removal from the system. When the patient station is replaced, the new station shall automatically assume the identity of the failed station. Failure of one station shall not affect the operation of other stations.
7. In the case of a single patient station, up to three additional auxiliary inputs shall be available for connecting auxiliary hardware. In the case of a dual patient station, up to five additional auxiliary inputs shall be available.
  - a. Model 438-761A Remote Auxiliary Input Isolation PCB Kits, 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 as an option. These kits shall be mounted to a single-gang stainless steel wallplate, and shall be located near the bed for easy staff access.
  - b. Each auxiliary isolation 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 patient station.
  - c. When the latching relay of the auxiliary hardware activates, or when a cord is pulled from the auxiliary input receptacle, or if the auxiliary hardware is removed from the cord while the cord is plugged in to the auxiliary input receptacle, a distinct user-programmed priority call, chosen from seven possible priorities, shall be placed to the base master. The call shall remain in the system until staff addresses the change in state with the auxiliary hardware.
  - d. Optionally, a Model 570-305 Call Cord Adapter shall be provided in lieu of the isolation kit, to accept parallel connection with a pillow speaker, call cord, and auxiliary hardware.
  - f. Optionally, a Model 9A2125 or 9A2126 Auxiliary Input Station shall be installed and associated with the patient station Input receptacles for these stations are not isolated.
8. The station circuitry shall be mounted on a three-gang chassis constructed of non-conductive, high impact, flame-retardant plastic, rigidly reinforced to prevent breakage if attached to improperly installed backboxes, and to withstand pressure if a device is pulled from its receptacle. 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.
9. The station 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 (RACO #697 or equal 3 gang masonry backbox).
10. An SPDT subminiature relay shall be provided for connection and start control of external devices such as an elapsed timer.
11. All external connections shall be made by prewired, color-coded, plug-in connectors for ease of installation, replacement, and maintenance.
12. Stations shall be powered by GE Model 110-2185B 12VDC Power Supply.
13. This product is Listed to UL Standard for Safety, UL 1069, and the appropriate Canadian requirements/standards, by Underwriters Laboratories Inc. (UL).

U.S.  
T 800-385-2639

Canada  
T 519-748-5352  
F 519-748-9221

www.gesecurity.com/hcc

© 2008 General Electric Company  
All Rights Reserved

ProCare is a trademark of GE.

## Hardware Specifications

Power Requirements	100 mA @ 12Vdc (maximum)
Mounting	Semi-Flush mount to standard North American 3-gang 3.5" (8.9 cm) deep masonry backbox (RACO #697 or equal).
Construction	Light gray ABS plastic
Keyswitches	Mechanical membrane
Speaker	8 Ohm, 0.25 watt
Outside Dimensions	Width: 6.375" (16.19 cm) Height: 4.5" (11.4 cm) Depth: 0.9" (2.3 cm) from wall surface

## Ordering Information

Model Number	Description
4A2481B	GE ProCare 6000 Single Patient Station
4A2486B	GE ProCare 6000 Dual Patient Station

### Associated Equipment

200-1330	Plug-In Connector (14-pin), part of 438-930 (12 in kit, 1 required)
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>	
200-1333	Plug-In Connector (6-pin), part of 438-933 (12 in kit, 1 required)
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)

### Optional Equipment (Hill-Rom or Stryker Beds)

438-537B	Cable Kit, for connection of station to 37-pin wall receptacle (1 required per bed)
9A2137A	Dual 37-Pin Wall Receptacle (1 required per bed) - Use RACO #695 or equal Single Gang Masonry Backbox.

### Optional Pillow Speakers

7A2016	Pillow Speaker w/ CALL and PRIVACY LEDs and four control switches
7A2031	37-Pin Pillow Speaker w/ CALL and PRIVACY LEDs and four control switches
7A2116, 7B2116, 7C2116	Smart Pillow Speaker (A-RCA; B-Zenith; C-Philips)
7A2131, 7B2131, 7C2131	37-Pin Smart Pillow Speaker (A-RCA; B-Zenith; C-Philips)
438-707	Pillow Speaker Hanger

### Optional Call Cords and Adapters

200-446	Single Air Cord Assembly (6 feet/1.83 m)
200-1071	Single Squeeze-Pad Air Cord Assembly (6 feet/1.83 m)
200-1072	Air Operated Pushbutton Cord Assembly (8 feet/2.44 m)
200-1073	Single Squeeze-Pad Air Cord Assembly (10 feet/3.05 m)
200-1272	Pushbutton Call Cord, 18-pin (12 feet/3.7 m; adapter NOT required)
570-303A	Call Cord Adapter for use with 200- series call cord and pillow speaker
570-304	Call Cord Adapter for use with 200- series call cord
570-305	Call Cord Adapter for use with 200- series call cord, pillow speaker, and UL 544 Listed auxiliary monitor device
570-306	Call Cord Adapter for use with 200- series call cord and UL 544 Listed auxiliary monitor device

### External Control Options

438-761	Remote Auxiliary Input Isolation PCB Kit
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 (double-gang, for UL 544 Listed devices)



9A2137A  
Dual 37-Pin Receptacle



imagination at work