Overview

Base Console

The 4A3610B Base Console provides call-answering and management functionality for one or more nursing units, depending on system coverage configuration. The 4A3610B provides alphanumeric information display of calls, reminders, location, and configuration menus.

Supplemental Four-Line Display

The GE Model 438-815A Supplemental Four-Line Display has the necessary components to mount and connect an optional incoming-call display module to any ProCare 6000 base console.

Remote Annunciator Panel

The GE Model 18A/B600 Remote Annunciator Panel is normally located at the nurses. station or other centralized locations such as PBX to visually display calls placed from patient stations and/or emergency stations in the ProCare 6000. The calls are individually identified, on a selected basis, by room/bed number, call priority, area, and/or alias name.

Standard Features

Base Console
- Compact design preserved desk space
- Buttons are clearly labeled to simplify operation
- Easy-to-read alphanumeric LCD
- Eight programmable keys for frequently dialed numbers
- Three levels of staff reminders and presence
- Sensitive speaker and microphone provide crystal clear audio

Supplemental 4-line Display
- Mounts Easily to Base Console
- Displays up to 4 Calls
- Displays Room and Priority
- Easy to Read
- Color and Design Matches Base Console
- Non-Glare Surface
- ESD Protected
- Separate Plug-In Power Unit

Remote Annunciator Panel
- Four-Line Screen Configurable for Display of 2 or 4 Calls
- Choice of 5 Display Layouts
- Full Alphanumeric Room Number
- Assignable .Alias. Room Name
- Choice of 16 Call Priorities
- Configurable Tone Pattern by Priority
- Configurable Coverage by Area
- Directly Replaces 18A500 Units
- Includes Built-in Diagnostic Tests
- Available with Beige or Gray Trim Rings

ProCare 6000™ Console/ Annunciators
Models: 4A3610B, 438-815A, 18A600, 18B600

438-815A 4-Line display

4A3610B Base Console

Application

Base Console

The 4A3610B Base Console can operate in stand-alone mode or in tandem with GE's Microsoft Windows XP-based Supplemental Display with or without touchscreen interface.

Supplemental Four-Line Display

This four-line display can be used in place of a supplemental PC display. The first call displays on the base console. Up to four additional incoming calls appear on the four-line display in order, from highest to lowest priority and by time of placement. If more than five calls are simultaneously registered in the system, the display flashes a number indicating the total quantity of calls currently registered. Each line shows an alphanumeric room/bed number of up to eight characters, the call priority, and the sequential position of the call within the call queue. When only one call is registered, it appears on the base console and No Other Calls appears on the four-line display. When no calls are registered, No Calls appears on the four-line display and a small heartbeat flashes in the lower right corner. When the base console is communicating with a remote station, the four-line display alerts the operator to new calls by displaying them in order of placement for immediate answering. A separate, UL/CSA Listed, plug-in transformer is provided to power the display from any local 120Vac outlet.

Remote Annunciator Panel

The GE Model 18A/B600 Remote Annunciator Panel is normally located at the nurses. station or other centralized locations such as PBX to visually display calls placed from patient stations and/or emergency stations in the ProCare 6000. Advanced Healthcare Communications System. The calls are individually identified, on a selected basis, by room/bed number, call priority, area, and/or alias name.

Up to 32 annunciators and ProCare 6000 file servers can be combined on one serial data link. Each annunciator can be restricted (filtered) to display any one or a combination of the call identification characteristics.

The annunciator can be used as a direct replacement for the 18A500 Code Blue Display Unit in a ProCare 6000 System, ProCare 4000 plus. System, ProCare 4000® System, and System 2070. However, when operating with remaining 18A500s and/or with any system other than a ProCare 6000, the annunciator must operate in 18A500 mode. In this mode, the annunciator displays only the standard features of the 18A500, but has the capability of assigning an alias name to up to 100 stations/beds.

5 Primary function keys – LOCATE, REMIND, PRIORITY, TONE, MENU - are easy to find and use.

16 character alphanumeric LCD clearly displays call or menu information.

High-quality speaker delivers excellent intercom audio.

Eight "macro" buttons are easily programmed for frequently dialed rooms or functions

Handset for private conversations, supporting HIPAA privacy guidelines.

Moisture resistant keypad for dialing of room numbers, answering and canceling calls.

Engineers' Specifications

Base Console

A GE Model 4A3610B Base Console, with or without a Model 438-753C/D Supplemental Video Display, shall be located at each nurses' station for use with GE's ProCare 6000 System® as shown on the floor plans. It shall include the following functional controls and operational features:

1. A 16-character LCD display window shall indicate the first incoming call, sorted by time of placement order and by call priority. All other pending calls shall be held in memory and displayed as the preceding calls are answered, canceled, or placed on reminder.

2. Each call shall display a three- to eight-digit programmed architectural room number, consisting of a possible combination of ten numbers (0–9) and/or eight preprogrammed alpha characters, and a four-character programmable priority.

3. A speaker, microphone and TALK button, and volume control shall be provided for attendant control of the voice communications with any station assigned to the base console's coverage area. Removing the handset from the cradle shall disconnect the speaker and microphone to provide private two-way communications without using the TALK button.

4. A tone signal shall announce all incoming calls. The tone rate shall be programmable by call priority, and the volume level shall be adjustable.

5. A compact control panel shall feature permanently designated, conductive rubber pushbuttons sealed to protect against moisture. It shall consist of the following controls for system operation:

a. A 12-button telephone key pad used in conjunction with eight programmable keys to originate calls to any patient, staff, or duty station. The asterisk (*) key and the pound (#) key shall be used to answer/select and to cancel/disconnect, respectively. In addition, the numbered keys shall be used to select or change call priorities, view staff level locations and reminder settings, and to send pages to pocket pagers.

b. Eight keys that can be programmed with any combination of 10 numbers (0–9), alpha characters, and menu instructions for shortcut selection of the stations by room name or number and bed letter, and/or for shortcut selection of menu-driven activities.

c. Five functional control buttons:

PRIORITY—to assign one of three priority levels to each bed. It shall also be used to scan the system for beds currently assigned to each priority level.

LOCATE—to locate and display, by room number, up to three different staff levels registered into rooms.

REMIND—to illuminate and flash up to three different color-coded sections of the corridor light outside each patient's room, and to place into memory the patients who require personal attention by the appropriate staff members.

TONE—to silence the current call tone while allowing the next incoming call or calls to sound a tone at a rate based on the highest priority of the waiting calls.

MENU—to activate system features not directly selectable, including: On/Off Duty, Capture, Capture Scan, Audio Page (Zone, Corridor, All), Time Out Settings, Errors, and Test.

d. A TALK button to control voice direction when using the console's speaker and microphone combination.

e. A bidirectional volume control to increase or decrease the speaker's incoming audio level.

6. Separate password-protected, software-driven controls shall be provided to independently adjust the audio communications level and tone quality.

7. The housing shall be constructed of gray, UL recognized fire-retardant material with all control surfaces electrically isolated from all system components.

8. An optional Model 9A1489 Power Fail Monitor shall be used when electrical supervision of the system is required as specified in UL 1069, paragraph 18.

9. The base console, as part of the system, shall be UL 1069 Listed.

Supplemental Four-Line Base Console Display

1. An optional 438-815A four-line display module shall be provided for easy mounting andplug-in connection to any ProCare 6000 base console. This four-line display shall be usable in place of a supplemental PC Display. The module shall have the capability to display up to four incoming calls, in addition to the first call displayed on the base console.

a. The calls shall display in order, from highest to lowest priority and by time of placement.

b. If more than five calls are simultaneously registered in the system, the fourline display shall flash a number indicating the total quantity of calls currently registered.

c. Each call line shall include an alphanumeric room/bed number of up to eight characters, the call priority, and the sequential position of the call within the call queue.

d. When the calls are answered at the base console, they shall be removed from the four-line display; or, if programmed to do so, emergency calls shall continue to display with an Ac (answered call) until canceled at the originating station.

e. When only one call is registered, it shall appear on the base console, and No Other Calls shall appear on the four-line display.

f. When no calls are registered in the system, No Calls shall appear on the fourline display.

g. While the base console is communicating with a remote station, the four-line display shall alert the operator to new calls by displaying the calls in order of placement for immediate answering.

2. A separate, UL/CSA Listed, plug-in transformer shall be provided to power the display from any local 120Vac duplex outlet.

Remote Annunciator Panel

The GE Model 18A/B600 Remote Annunciator Panel shall have the following functional controls and physical features:

1. The GE Model [18A600] [18B600] Remote Annunciator Panel with a [beige] [gray] trim ring shall flush-mount in a four-gang backbox that is a minimum of 3-1/2 inches (8.9 cm) deep. It shall be located as shown on the floor plans and/or as a direct replacement of a currently installed 18A500 Code Blue Display Unit. To use the annunciator's en-hanced mode, the ProCare 6000 file server must be 110-3613D or later.

2. Each annunciator panel shall have the ability to respond to all calls placed on a facility-wide basis or be limited to a choice of up to 12 LAGs (system IDs) and up to eight duty areas.

3. Additional filters, on a call priority basis, may be applied to delay the on-screen display of calls up to 99 minutes. A .DC. code shall appear on the display when a delayed call is received. The call shall then only appear on screen after the time limit has been reached.

4. The display shall have four lines of 20, 5x7 VF (Vacuum Fluorescent) blue-dot-matrix, 9 mm high characters capable of providing an alpha-

numeric description of up to four calls. Each call display shall include two of the three possible fields: room/bed number, call priority, and area name/room alias name. Two additional display modes that each display all three fields shall be included. One of these modes shall display four calls per screen (truncating individual fields when necessary). The other shall allow the full, non-truncated display of two calls per screen.

5. In the idle state (no calls pending), the annunciator panel shall alternately display the GE product name and the facility's name/area as programmed by the facility.

6. A choice of two or four calls to be simultaneously displayed shall be available dependent on the display mode chosen and/or the desired quantity and length of characters of the descriptive fields chosen. The maximum number of characters per descriptive field shall be determined by the display mode chosen. If the total number of characters exceeds the limit, the fields shall automatically be truncated.

7. Pending calls shall be displayed in the order of priority (highest to lowest) then by the time received. Each call line shall be numbered (two digits) having the last line alternately displaying the call with the number of the call and the total number of calls contained in the call pending list. As the calls are cleared, the display shall automatically adjust the listing and include those that had not been previously been listed.

8. If the number of pending calls exceeds the number of call lines available, the last line shall be configurable to automatically scroll between the remaining calls pending list of up to 32 calls. The user shall also be able to manually review calls using the UP and DOWN buttons on the front panel.

9. A tone signal shall announce all incoming calls. The tone rate and frequency shall be programmable by call priority, and the volume level shall be adjustable. A tone defeat switch shall silence the current call tone. If a silenced call is not answered within a programmable time limit based on call priority, or if the annunciator receives a new incoming call, the tone shall be reactivated.

10. A continuous "heartbeat" shall be displayed, indicating the annunciator is properly connected to the system and is operational. When a data fault (link failure) is detected, the display shall be indicated the loss of data connection and the annunciator shall continuously sound a tone. If the annunciator should become inoperative, the heartbeat shall disappear.

11. A choice of five display layouts shall be available, each including a type and predetermined maximum size of descriptive field for the number of lines or pending calls displayed. The desired display layout shall be individually selected at each annunciator panel within the facility/system as follows:

   a. One line-Room Number only
      1. 1 line per pending call
      2. 6-character room number (max)
      3. Reserved for direct replacement of 18A500 (Mode 1)
   b. One line-Room Number and Area Name
      1. 1 line per pending call
      2. 8-character room number
      3. 11-character duty area (truncated.first 8 characters)
   c. One line-Priority and Room Number and Area Name
      1. 1 line per pending call
      2. 8-character room number (truncated.last 6 characters)
      3. 11-character duty area (truncated.first 5 characters)
      4. 4-character priority name
   d. One line-Priority and Room Number
      1. 1 line per pending call
      2. 8-character room number
      3. 4-character priority name
   e. Two lines-Priority name and Room Number and Area Name

      1. 2 lines per pending call
      2. 8-character room number
      3. 4-character priority name
      4. 11-character duty area (line #2)

12. The duty area name displayed on the annunciator panel, by default, shall be the duty area name assigned in the ProCare 6000 System. If the ProCare 6000 System is not configured for duty area names, the system default area name, "No Area," shall be displayed. In place of the duty area name an alias of up to 11 characters, depending on the chosen display mode, may be assigned to up to 100 room/bed numbers.

13. The call priority names displayed on the annunciator panel, by default, shall be the priority names assigned in the ProCare 6000 System. In place of these default names, alternate four-character priority names may be assigned to any or all of the priorities. These alternate names shall only appear at the annunciator, and shall not change the actual priorities of the calls placed.

14. The annunciator software shall provide an operational sequence to verify the annunciator is in proper operation and calls shall be displayed when received. In addition, the annunciator shall be self-diagnostic in its ability to determine and display on command the number of hours of operation and the number of errors, if any, that occurred during that time period.

15. A single RS-232 output port shall be available. This port shall be designed for the purpose of driving an auxiliary multi-line display panel that shall be available at a later date. The display panel shall be manufactured by compliant companies as recommended and tested with the 18A/B600 by GE. The protocol (interface software) shall be provided by the manufacturer of the auxiliary display panel to meet with the specific requirements of the GE application software.

16. An input port connection shall be available. With the aid of PC-based configuration software to be made available at a later date, this port shall support the option of configuring the annunciator using a separate laptop PC prior to the physical installation of the annunciator.

17. Four front-panel control buttons (MENU, UP, DOWN, SEL) shall be provided for use by authorized staff, through a password entry. These buttons shall be used to uniquely configure the annunciator for specific coverage, display, and tone characteristics. They shall also be used to make any additional adjustments after installation.

18. A subminiature relay shall be provided for the connection of external devices such as an elapsed time clock. When a code blue call is displayed on the station, the relay shall be energized and remain energized until which time the call is canceled at the originating location. The normally open (NO) contact shall control any external device requiring no more than 75ma. A second relay shall, when energized each time a code blue call is placed, provide a momentary contact closure. Both relays shall be connected via a combined four-pin plug-in connector.

19. Each group of up to six 18A/B600 annunciator panels shall be powered from a single Model 17A/B451 Power Supply including a Model 110-2185B 12Vdc power supply module, a backbox, and a cover.

20. One 9A1489 Power Monitor shall optionally be installed for each group of 18A600s that share a power supply, to monitor the power to those annunciators.

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

Ordering Information

Model	Description
4A3610B	Base Console
18A/B600	Remote Annunciator Panel
438-815A	Supplemental 4-Line Display

Associated Equipment for Base Console

9A1489	Power Fail Monitor (optional)
12A3605 Series	Central Equipment
Model 438-753C/D	Supplemental Video Display Software Application (optional)
HC-PC-DSK2-XP	Supplemental Touchscreen Display Unit (optional)
110-3284	Single-Gang Wallplate Receptacle (1 per 4A3610B - ordered separately)
110-3616A	Master Interface Unit (MIU) PCB (one per 4A3610B - ordered separately)
438-815A	Four-Line Display Unit (optional)

Associated Equipment for Remote Annunciator Panel

110-3613D	ProCare 6000 File Server
17A451	Flush Power Supply
17B451	Surface Power Supply
9A1489	Power Monitor (optional)
RACO #698 or equal	Four-Gang Backbox, 3-3/4" (9.5 cm) H, 7-13/32" (18.8 cm) W, 3-1/2" (8.9 cm) D

110-3284
Receptacle

438-815A 4-Line display

GE
Security

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