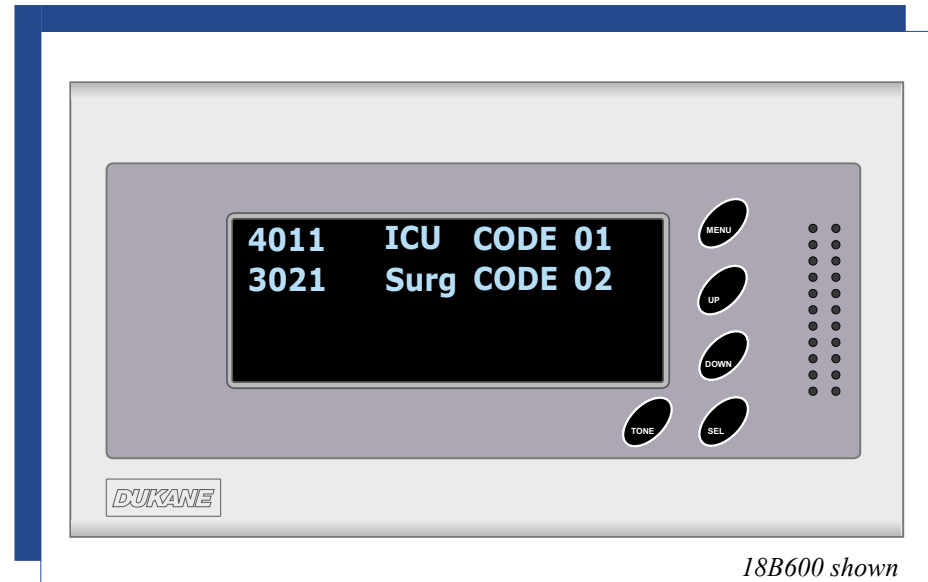


REMOTE ANNUNCIATOR PANEL



Features

- *Four-Line Screen Configurable for Simultaneous Display of Two or Four Calls*
- *Choice of Five Display Layouts*
- *Full Alphanumeric Room Number*
- *Assignable "Alias" Room Name*
- *Choice of 16 Call Priorities*
- *Configurable Tone Pattern by Priority*
- *Configurable Coverage by Area*
- *Compatible with ProCare 6000, ProCare 4000 plus, ProCare 4000, and System 2070*
- *Directly Replaces 18A500 Units*
- *Includes Built-in Diagnostic Tests*
- *Available with Beige or Gray Trim Rings*



General Description

The Dukane 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.

Engineers' Specifications

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

1. The Dukane 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 enhanced 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 alphanumeric 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 Dukane 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.

**(Engineers'
Specifications)**

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.

**(Engineers'
Specifications)**

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 Dukane Communication Systems. The protocol (interface software) shall be provided by the manufacturer of the auxiliary display panel to meet with the specific requirements of the Dukane 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).

Model 110-3613D

ProCare 6000 File Server

Model 17A451

Flush Power Supply

Model 17B451

Surface Power Supply

Model 9A1489 (optional)

Power Monitor

RACO #698 or equal

Four-Gang Backbox, 3-3/4" (9.5 cm) high, 7-13/32" (18.8 cm) wide,
3-1/2" (8.9 cm) deep

**Associated
Equipment**

*ProCare 6000, ProCare 4000 plus, and ProCare 4000 are registered trademarks of
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