



# Product Specification Sheet

APS475

Rev. 1 - 08/01



**NC304  
Master Station**



**NC304LCD  
Master Station**

## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

Master station(s) shall be Alpha Communications®/Tektone NC304, NC304LCD or approved equal. The master station wiring shall be supervised. The master station(s) shall include the necessary signaling circuitry to receive and answer calls from all patient, staff, and duty stations; and receive calls from code and emergency stations on the NC300II System. The master station(s) shall provide for handset or loudspeaker communication with patients and staff. Function buttons with (and without) LED's shall be provided to initiate reset operation, staff emergency request, nurse/aide request, paging operations, and nurse-follower operations. Additional buttons for menu-driven programmable functions include: talk, monitor, capture, page up/down and room priority programming.

For the NC304LCD, incoming calls shall be displayed by room numbers in plain English on an integral LCD display with a minimum of 2 lines capable of displaying 40 characters each. The calls will display in order of time of origination, and in accordance with established priority. The master station(s) shall also provide a color VGA output to connect to a standard VGA monitor (our model#NC313) for color VGA call display. A parallel port and serial port shall be available for connection to UL1069® Listed devices.

The user shall be able to access system programming via the keys on the master station(s) or via the keyboard port, which will accept any standard PC keyboard (similar to our model# KB-1).

The master station(s) shall be equipped with an integral handset, volume control, color-keyed function switches (with and without LED's), audible signal control switches, call LED, busy LED, 2.50" speaker, electrostatic microphone, C.P.E. fault LED; and 12-button digital keypad for entry of station numbers, zone and station assignments, and for selection of menu functions. All buttons shall also switch to Alpha-character operation by depressing the switch marked "ALPHA", Alpha-character operation shall allow for alphanumeric room numbering, room labelling, and calling of rooms so designated. All switches shall be of spill-proof membrane switch design.

Each master station shall be able to address up to 512 single or dual stations per system, and up to 16 individual zones. The NC300II System shall support up to 8 master stations per system. The master station(s) shall be UL1069® listed.

Station housing shall be high-impact, flame retardant, ABS-type plastic. Station(s) shall be desk mounted.

NC300II Systems shall meet all Veterans Administration specifications when used with additional Alpha Communications® equipment to be specified by Alpha Communications®.

*Due to continuous product improvement, all colors, sizes, materials, finishes and specifications are subject to change without notice.*

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## NC304 and NC304LCD Master Stations

A major component of the NC300II system, the NC304 and NC304LCD Master Stations supply the user interface to respond to calls, issue staff requests and alter room programming status to accommodate different patient needs. The NC304 and NC304LCD are functionally the same, except the NC304LCD has an integral 2-line, 80-character LCD display for showing up to 4 active calls.

The master station allows for room and staff communication by either open speaker or handset for additional privacy. A color VGA monitor (our model# NC313) can be used (required for the NC304) to display up to 16 active patient, staff or duty calls (with page up and down feature) as well as columns for two (2) levels of staff presence and STAT priority call, in English language format.

Master station function buttons are provided to select the system functions as follows:

<b>RESET</b> (black)	Terminates most operations.
<b>AIDE</b> (yellow)	Enters an aide service request.
<b>NURSE</b> (green)	Enters a nurse service request.
<b>STAT</b> (red)	Enters an urgent staff emergency request.
<b>MENU</b> (blue)	Displays function menu for programming additional features.
<b>PAGE</b> (gray)	Initiates paging operations.
<b>FOLLOW</b> (orange)	Initiates nurse-follower operations.
<b>TALK</b> (white)	Press while speaking, release to listen when using loudspeaker for communications
<b>ALPHA</b> (white)	Changes all function keys to the specifically labeled Alpha-characters.
<b>MONITOR</b> (blue)	Page up.
<b>CAPTURE</b> (blue)	Allows for zone assignment.
<b>VIEW</b> (blue)	Page down.
<b>PRIORITY</b> (blue)	Activates menu for changing room priority
<b>tone ON</b> (white)	Turns normal call-tone on/off.

Additional programmable functions include set station priority, set privacy, zone assignments, view station configurations, set or reset code call stations, set password, reset time of day, time display, set overtime, transfer for master stations, paging, system configuration, and system re-initialization.

The master station is also equipped with volume control for adjustment of incoming voice communication; tone switch for controlling the lowest priority tone signal only; beep switch for controlling the short tone signal heard when the keypad is in use; call light with indication of low, medium and high priority calls; CPE fault LED; and alphanumeric keypad used for entry of station numbers, zone and station selection, and for selection of menu functions.

The master station(s) also provide a parallel port and serial port for connection to UL1069® Listed devices. The system programming is accessible to the user via the keys on the master station or via the keyboard port which will accept any standard PC keyboard (similar to our model# KB-1).

## NC304 Master Station Features

- UL 1069® Listed
- Supervised
- Microprocessor technology
- Color VGA output
- Parallel Port
- Serial Port
- Keyboard Port
- Spill-proof membrane switch
- Alpha/Numeric characters
- Easy access to commonly used menu functions
- Simultaneous display of 16 calls with Page Up/Down functions for viewing additional calls
- Integral handset
- Electrostatic microphone
- Clear, distinct voice communication
- Simple, menu-driven programmable functions
- Master-to-master intercom capability
- Single-button or handset intercom
- Calls displayed by origination and priority
- Calls identified by room and bed number
- Programmable patient priority and privacy
- Calls-waiting indication
- Calls-overtime indication (programmable)
- View station configuration capability
- Initiate "STAT" staff emergency request
- Cord-out indication
- Upgrade patient call
- Separate tone signals for high, medium, and low priority calls
- Twelve (12) call-priority levels
- Nurse-follower function
- Paging by zone or to staff
- Overhead paging interface
- Patient monitor single, group, or by zone
- Automatic and manual tone-silencing switch (for Routine calls only)
- High priority calls override tone off feature
- Simplified multiplex wiring using plug-in type connectors
- Locate and dispatch nurse/aide location and nurse/aide needed.
- Continuous display of nurse/aide location and nurse/aide needed
- Keypad for initiating calls
- Reset presence stations
- Master Station(s) used in parallel or independently

## SPECIFICATIONS

<b>Dimensions:</b>	Console: 10.75" x 8.75" x 3.25" (274mm x 223mm x 83mm)
<b>Speaker:</b>	2.50" (64mm), 8 ohms
<b>Microphone:</b>	Electrostatic
<b>Capacity:</b>	Can address up to 512 single or dual patient stations, in up to 16 zones.
<b>Environments:</b>	26°C, 0-80% relative humidity
<b>Terminations:</b>	Plug-on connectors
<b>System Protection:</b>	All outputs are protected by self-resetting current-limiting devices