



Tek-CARE®NC300II NC304 and NC304LCD Master Station Specification Sheet

IL693
Section E
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NC304 Master Station



NC304LCD Master Station

ARCHITECTS' AND ENGINEERS' SPECIFICATION

The nurses' master station shall be TekTone® NC304, NC304LCD or approved equal. The master station wiring shall be supervised. The master station shall include the necessary signaling circuitry and firmware to receive and answer calls from all patient, staff, and duty stations; and receive calls from code and emergency stations on the Tek-CARE®NC300II System.

The master station shall provide for handset or loudspeaker communication with patients and staff. Function buttons (with and without LEDs) 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 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 stations shall also provide a color VGA output to connect to a standard UL® 1069 Listed VGA monitor (TekTone's NC315) for color VGA call display. A parallel port and serial port shall be available for connection to UL® 1069 Listed devices.

The user shall be able to access system programming via the keys on the master station or via the keyboard port which will accept any standard PC keyboard.

The master station shall be equipped with an integral handset, volume control, color-keyed function buttons, tone-off button, call LED, busy LED, CE fault LED, 2.5" speaker, electrostatic microphone. The master station will also include a 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 labeling, and calling of rooms so designated. All switches shall be of spill-resistant 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 Tek-CARE®NC300II System shall support up to 8 master stations. The master station shall be UL® 1069 listed.

The station housing shall be high-impact, flame-retardant (UL® 94V-0) plastic and shall be desk mounted.

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TekTone's quality system is registered by UL® to the ISO 9001:2000 standard. (File #A10766.)

FEATURES

A major component of the Tek-CARE®NC300II System, the NC304LCD and NC304 master station supplies the user interface to respond to calls, issue staff requests and alter room programming status to accommodate differing patient needs. The NC304LCD and NC304 are functionally the same but the NC304LCD has an integral 2 line, 80-character LCD display for showing up to 4 active calls.

The master console allows for room and staff communication by either open speaker or handset for additional privacy. A VGA monitor can be used (required for the NC304) to display up to 22 active patient, staff or duty calls as well as columns for two levels of staff presence and STAT priority calls in English language format.

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

RESET	(black)	Terminates most operations.
AIDE	(yellow)	Enters an aide service request.
NURSE	(green)	Enters a nurse service request.
STAT	(red)	Enters an urgent staff emergency request.
MENU	(blue)	Displays functions menu for programming additional features.
PAGE	(gray)	Initiates paging operations.
FOLLOW	(orange)	Initiates nurse-follower operations.
TALK	(white)	Press to speak, press again to listen when using loudspeaker for communications.
ALPHA	(white)	Changes all function keys to the specifically labeled alpha characters.
MONITOR	(blue)	Enables room monitoring.
CAPTURE	(blue)	Allows for zone assignment.
VIEW	(blue)	Allows review of station information.
PRIORITY	(blue)	Activates menu for changing room priority.
TONE ON	(white)	Turns normal call-tone on/off.

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

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; call light with indication of low, medium and high priority calls; CE fault LED; busy and alphanumeric keypad used for entry of station numbers, zone and station selection, and for selection of menu functions.

The master stations also provide a parallel port and serial port for connection to UL® 1069 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.

- UL® 1069 Listed
- Supervised
- VGA output, Parallel port, Serial & Keyboard ports
- Spill-proof membrane switch with alphabetic characters
- Easy access to commonly used menu functions
- Simultaneous display of 22 calls
- Electrostatic microphone for clear voice communications
- Simple, menu-driven programmable functions
- Master-to-master intercom capability
- Single-button or handset intercom
- Calls displayed by priority and origination
- Calls identified by room and bed number
- Programmable patient priority and privacy
- Calls-waiting, calls-overtime and cord-out indication
- View station configuration capability
- Initiate **STAT** staff emergency request
- Upgrade patient call
- Distinct tones for high, medium and low-priority calls
- Nurse follower function
- Paging by zone or to all staff
- Overhead paging interface
- Patient monitor single or group
- Manual tone-silencing switch (for Routine calls only)
- High priority calls override tone-off feature
- Simplified multiplex wiring uses plug-in type connectors
- Continuous display of nurse/aide location and nurse/aide requested
- Use masters in parallel or independently

SPECIFICATIONS

Dimensions:	Console: 10.75" × 8.75" × 3.25"
Capacity:	Address up to 512 single or dual patient stations in up to 16 zones
Environments:	26°C, relative humidity should not exceed 80%
Terminations:	Plug-on connectors
System protection:	All outputs are protected by self-resetting current-limiting devices

REQUIRED COMPONENTS

NC315	Flat Panel VGA Monitor
NC351(A)	Central Equipment (4 masters/256 stations)
-or-	
NC351(A)/2	Central Equipment (8 masters/512 stations)
IR300C series	Patient Stations