



NC401TS Master Station with Touchscreen Specification Sheet

IL770
Section C
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NC401TS Master Station with Touchscreen
(shown with keyboard drawer open and closed)

ARCHITECTS' AND ENGINEERS' SPECIFICATION

The nurses' master station shall be TekTone® NC401TS Master Station with Touchscreen or approved equal. The master station shall be powered from the NC450 Central Equipment, and shall have a backlit color touchscreen LCD VGA Display with 10.4" viewing area; a membrane keypad used to control, access and program system features and access calls displayed on the touchscreen; and keyboard provided with redundant membrane switch functionality to allow for ease of data entry.

Master stations may be located anywhere within the facility's nurse/patient communications network. The master station shall be able to receive and display any or all calls placed in the system, including simultaneous call types from the same room. The master station shall be able to display 256 unique call types sorted first by call priority and then by the chronological time in which the calls were placed.

The master station shall be able to display up to 20 incoming calls with the ability to select a call and/or scroll to any active call using the touchscreen. Alternatively, calls and staff location shall be displayed on station icons arranged by user preference into lockable positions on the touchscreen.

The master station shall support master-to-patient or master-to-master audio using a choice of push-to-talk audio via an

open microphone and loudspeaker, or private conversation using the supplied handset. The master station shall also support automatic answer of the highest priority call or selective answer of any displayed call. All Page, Zone Page and Staff Page operation shall also be supported.

Audible call annunciation shall be optionally silenced for user definable call types (*Routine* by default) and shall sound pleasant. Silenced tones shall be regenerated by any new incoming call. Tone volume of all audible annunciations shall be easily varied for day and night use.

It shall be possible, from the master station, to block all loudspeaker paging to facilitate a low-noise patient environment, and to set/review patient privacy. Room monitoring with room number display shall be supported.

Three levels of staff assist shall be available from the master station: L1 (green), L2 (amber) and L3 (yellow). Call upgrade to Staff Emergency or other user defined call from the console shall also be supported. The master station shall be able to locate the three levels of staff, with remote cancellation of manual staff registration.

Zone capture of an individual nursing unit, selected units, or all units in facility shall be supported, as well as the ability to swing an individual room or any group of rooms. The master station shall also have the ability to perform day/night transfer between master stations.

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

Password protection shall allow authorized access only to audio paging or to other system configuration options.

Canned and custom direct messaging to pocket pagers shall be supported. Individual staff-to-patient RF paging assignments shall be easily programmable from the master station at the beginning of each shift by selecting the staff member's name and changing their personal assignment screen. Staff-to-patient assignments shall be established directly using the patient's room and bed, and staff may receive all or only a selected subset of the 256 call types.

The master station shall be microprocessor-controlled and continuously supervised with self-diagnosing error messages. Its firmware shall run on a dedicated operating system, avoiding the risk of "lock-up" that may occur with units that use popular commercial operating systems. The master station shall not depend on a hard disk, since this mass storage device is prone to spurious failure and subsequent data loss.

Master stations shall be programmed via the integrated user interface or a centrally connected PC running master station configuration software. It shall be possible to remove and/or replace any master station while the system is operational without losing any calls, damaging any system components, or reprogramming master station attributes.

The NC401TS shall be UL® 1069 Listed and cUL® Listed.

FEATURES

The NC401TS Master Station with Touchscreen is a primary component of the Tek-CARE®400 Nurse Call System. The NC401TS is the user interface for responding to calls, issuing staff requests, sending custom pages, viewing staff locations, and altering room programming to accommodate differing patient needs.

The master station is completely self-contained, including a built-in 10.4" color touchscreen LCD display, quick-access function buttons, and a pull-out keyboard drawer. The NC401TS displays up to 20 incoming calls simultaneously, allowing staff to select or scroll to any active call using just the touchscreen. Each call displays a unique timer that increments until that call is reset. Calls and staff locations may also be displayed as room icons arranged by user preference into lockable positions on the touchscreen.

The master station's programming information and power are provided by the NC450 Central Equipment. Therefore, any NC401TS master station on the system can be replaced with another NC401TS without any reprogramming.

The NC401TS master station supports full-duplex audio to the patient stations, and allows staff to adjust incoming and outgoing volume for each station. Tone volume can be adjusted to increase the volume during the day and reduce the volume at night. Routine-level calls may be silenced using the master station's TONE-OFF button to further reduce noise at the nurses' station.

The membrane keypad provides these function buttons:

<u>Button</u>	<u>Function</u>
ALPHA	Toggle from alpha to numeric key functions
Alpha/Numeric	A-Z, SPACE, 1-9
Arrow keys	up, down, right, left for menu navigation
ENTER	Selects dialed item
NEXT	Cycles between beds on a single station
VIEW	View a selected item
PAGE	Audio page to selected zones
MONITOR	Monitor selected zones
PRIORITY	Cycle priority for selected station
ZONE	Select zone from list
VOLUME	Access master station volume dialog
TONE SILENCE	Disable audible call annunciation*
MENU	Access drop-down menu
STAT	Upgrade/place staff emergency call** to selected station
L1	Level 1 service request
L2	Level 2 service request
L3	Level 3 service request

* Only for call types designated at setup, *Routine* by default. Tone regenerates upon new call event.

** Or user-defined call type

The master station also includes a built-in full-function keyboard. The keyboard provides redundant functionality and simplifies data entry and custom paging. Individual staff RF paging assignments can be easily programmed from any master station based on bed, room, zone or call type.

- UL® 1069 Listed and cUL® Listed
- Supervised
- Color touchscreen display
- Full-duplex audio
- Membrane keypad is water-resistant
- Built-in keyboard for easy programming
- Simultaneous display of 20 calls
- Master-to-master intercom
- Up to 256 unique call types
- Automatic answer of highest priority call
- Selective answer of any call
- Four levels staff service
- Single button day/night transfer
- Attend feature to find staff
- Preprogrammed RF paging messages
- Set/review patient privacy
- View staff locations by staff level
- Room monitoring
- No computer required
- Overhead paging interface

SPECIFICATIONS

Dimensions:	13.2"×9"×5.5" (335mm×229mm×140mm)
Capacity:	Address 640 stations in up to 256 zones
Environments:	26°C, relative humidity should not exceed 80%
Terminations:	Plug-in connector to CE
System Protection:	CE power limited by self-resetting current limiting device. ESD protected to 8kV.