TECHMA®
TECHNOLOGY

ANALOG NURSE CALL SYSTEM

INTELLIGENT HEALTH CARE COMMUNICATION SYSTEM

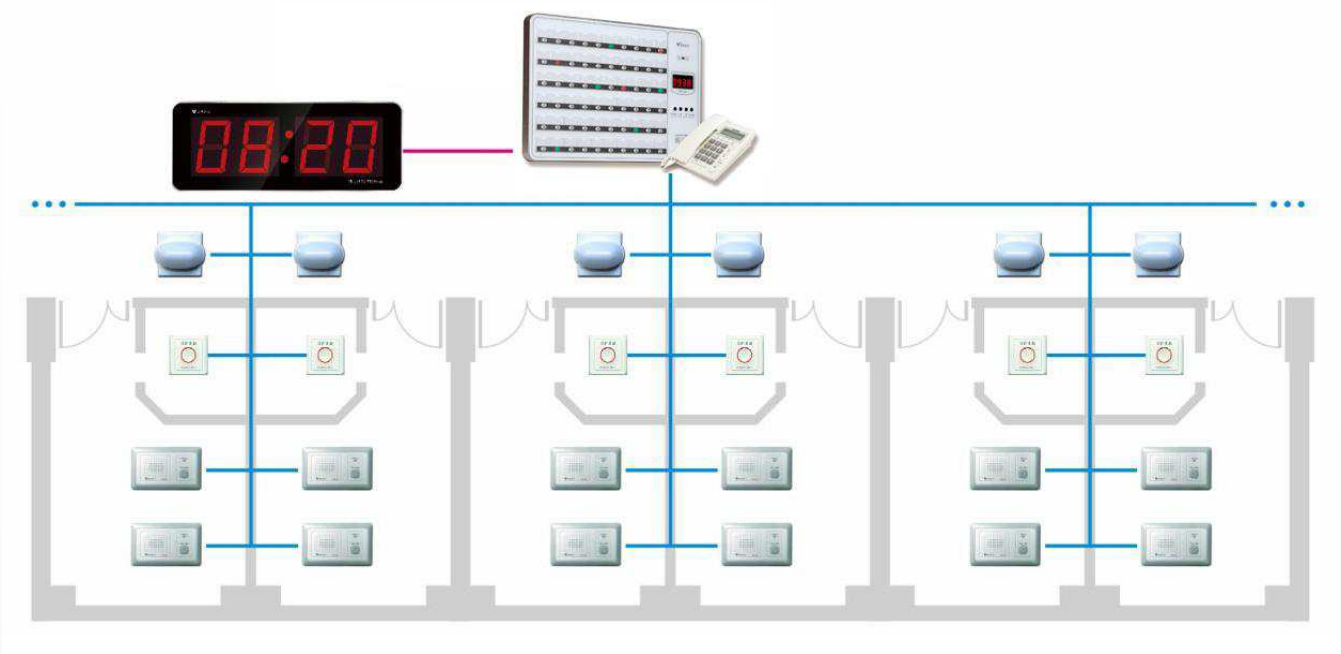
TCM-968K INTELLIGENT HEALTH CARE COMMUNICATION SYSTEM

YHE item health care communication system is a basic and widely known nurse call system. From 1998, we use the two-wire system networking in this device to innovate China health care communication solution. Now, our TCM item serve more than 2,000,000.00 patient beds.

1. Feature:

1) Adopting two-wire system networking, integrated the power supply line, data signal line and acoustic signal wire into one wire with two cores. It makes the installation and maintain simpler assuring system stable running.
2) Bedside station and bath station can do directly call and system supports No-interruption calling, which means even the master station is in ringing or calling status, other sub stations can call in normally. This is an important function to make sure no call-in missing.
3) System sub station has fault self-checking function, each module and components are relatively independent. Even sub station failure, it can automatically disconnect from the system, and won't affect entire system.
4) System master station is made from PMMA material, integrally molded by engraving. Substation hull is high-end & non-fading, with delicate buttons, soft light, and excellent feedback hand feel. Device supports 8 levels ringing volume, and 10 chords can be set arbitrarily.
5) Master station switching power has protection function such as lightning protection, over-voltage protection, over-current protection, anti-interference protection.
   Equipment support short circuit protection, disconnect automatic recovery function
   With strong environmental adaptability, equipment have good humidity and heat resistance performance.
6) Service condition(s)
   i. Environmental temperature: 0-40 ° C
   ii. Relative humidity: ≤80%RH
   iii. Environmental noise: ≤60dB
   iv. The working voltage of the master station: AC220V±10%, 50Hz±1%, well grounding
   v. Specifications of the wiring cable: RVV2 × 0.5mm^2 (sub station)

2. System networking diagram



3. System technical parameters

1) Master station capacity:
40 beds, 50 beds and 60 beds, customized 72 beds, 84 beds, 98 beds, 112 beds, 128 beds

2) The longest communication distance: 800 meters

3) Power supply: AC220V 50HZ

4) Static power consumption: 20W

5) Working method: continuous

6) Bus voltage: 25V

7) Working conditions: Ambient temperature 0-40 ° C, relative humidity ≤ 80%

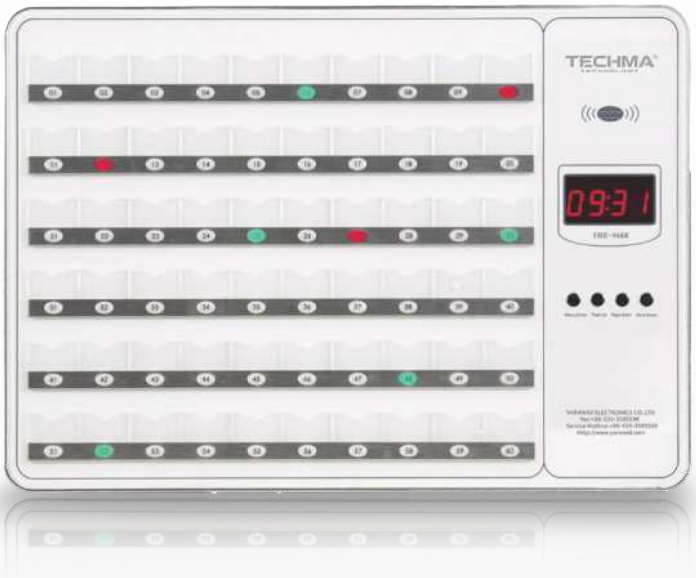
8) Extension audio output power: 〉10mw

9) Frequency response: 300-3400HZ

10) Distortion: <10%

4. Introduction of product function

Master Station



Model	**TCM-968K**
Networking wiring	The system is connected by two-core wire, convenient and quick to install, arbitrary number of substation on line
Major function	The panel of the host is made of PMMA material, and it is integrally molded by engraving, the frame is oxidized by aluminum sandblasting.
	Master station window has the functions of multi-function display, two-way call, and duplex call.
	Master station can detect the substation fault and automatically alarm the extension number by the screen.
	Support nursing level setting, also advanced nursing priority setting.
	Substation call storage, screen multi-function display.
	Host microphone broadcast, audio health education broadcast, number announcing function
	Master station and substation ringing volume, music free settings and adjusting.
	Support function extension
	Master station capacity:40 beds, 50 gates and 60 beds, customized 72 beds, 84

	beds, 98 beds, 112 beds, 128 beds
Max.power consumption	30W
Operating Voltage	AC220V
Outline dimension	570mm*400mm*32mm
Installation instructions	Nurse station desk top display or wall mount

Bedside station: different models for different requirements

Model	**TCM-6399W**
Major function	The panel is made of alumina drawing process and never fades
	Call communication, call indication, call clear function
	Can be used as a broadcaster
	It uses a fixed call switch
Maximum power consumption	0.6W
Operating Voltage	DC20V
Outline dimension	129mm*82mm**14.5mm
Installation instructions	Suitable for installation on the outer surface of the wall or for the outer surface of the bed head equipment belt

Bedside station: different models for different requirements

Model	**TCM-6399P**
Major function	The panel is made of alumina drawing process and never fades
	Designed by ultra-thin paperback
	The functions available are call communication, call indication, call clear
	Can be used as a broadcaster
	Call switch using the plug and pull
Max. power consumption	0.6W
Operating Voltage	20V
Outline dimension	129mm*82mm*10mm Exposed thickness 2.5mm
Installation instructions	Embedded installation of the bed head equipment belt

Bedside station: different models for different requirements

Model	**TCM-6399Q**
Major function	Designed by ultra-thin paperback
	The functions available are call communication, call indication, call clear
	Can be used as a broadcaster
	Call switch using the plug and pull
Max. power consumption	0.6W
Operating Voltage	20V
Outline dimension	122mm*74mm*15mm Exposed thickness 7mm
Installation instructions	Embedded installation of the equipment

Bedside station: different models for different requirements

Model	**TCM-669**
Major function	Designed by ultra-thin paperback
	The functions available are call communication, call indication, call clear
	Fixed call handset
Max. power consumption	0.6W
Operating Voltage	20V
Outline dimension	145mm*90mm*10.5mm
Installation instructions	Surface installation on of the wall or on the headset unit panel

Handset YHE-K2 button

Model	**TCM-K2**
Main function	Nurse call and talkbalk
Outline dimension	88 mm*35 mm**14 mm
Installation instructions	Fixed with bedside station interface

Bath station

Model	**TCM-6089L**
Major function	Meet the requirements of emergency call design, the highest priority
	There are obvious indicator lights when calling
	Press the button again in the incoming state to clear the call
	Waterproof and dustproof design, suitable for use in damp environments such as toilets and showers
Max. power consumption	0.5W
Operating Voltage	20V
Outline dimension	90mm*90mm**32mm Exposed thickness 8mm
Installation instructions	Installed on 86 bottom boxes, one side of the toilet is 0.6-0.8 m above earth

Corridor display

Model	**TCM-X245K**
Major function	Double-sided display screen for corridor
	Multi-function display, can display room number, bed number, call sequence number, time, etc.
	Made by PMMA material, and integrally molded by engraving， with excellent transparent display effect.
Maxi.power consumption	5W
Operating Voltage	20V
Outline dimension	556mm*215mm**32mm
Installation instructions	Corridor roof suction ceiling installation

Corridor light

Mame	**TCM-M730**
Major function	Three color corridor light for call level identification
	Installed at the door of the ward, can be associated with the room
	Associated with room substation and emergency buttons to facilitate timely handling of emergencies
Max. power consumption	0.5W
Operating Voltage	20V
Outline dimension	90mm*90mm**65mm
Installation instructions	Mounted on the wall