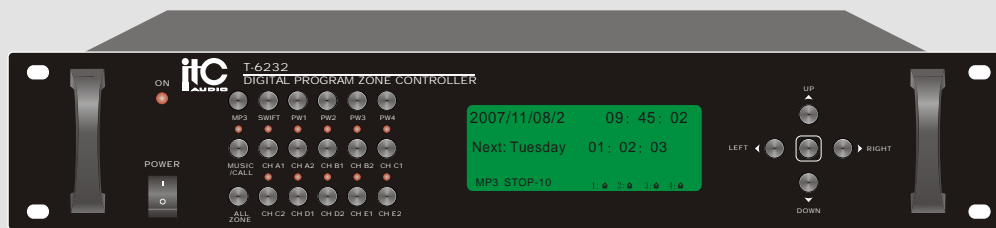




PUBLIC ADDRESS SYSTEM

OPERATION MANUAL

T-6232 DIGITAL PROGRAM ZONE CONTROLLER



Please follow the instructions in this manual to obtain the optimum results from this unit. We also recommend that you keep this manual handy for future reference.

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1. SAFETY PRECAUTIONS

- Be sure to read the instructions in this section carefully before use.
- Make sure to observe the instructions in this manual as the conventions of safety symbols and messages regarded as very important precautions are included.
- We also recommend you keep this instruction manual handy for future reference.

Safety Symbol and Message Conventions

Safety symbols and messages described below are used in this manual to prevent bodily injury and property damage which could result from mishandling. Before operating your product, read this manual first and understand the safety symbols and messages so you are thoroughly aware of the potential safety

WARNING

Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.

CAUTION

Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.

WARNING

When Installing the Unit

- Do not expose the unit to rain or an environment where it may be splashed by water or other liquids, as doing so may result in fire or electric shock.
- Use the unit only with the voltage specified on the unit. Using a voltage higher than that which is specified may result in fire or electric shock.
- Do not cut, kink, otherwise damage nor modify the power supply cord. In addition, avoid using the power cord in close proximity to heaters, and never place heavy objects -- including the unit itself -- on the power cord, as doing so may result in fire or electric shock.
- Be sure to replace the unit's terminal cover after connection completion. Because high voltage is applied to the speaker terminals, never touch these terminals to avoid electric shock.
- Be sure to ground to the safety ground (earth) terminal to avoid electric shock. Never ground to a gas pipe as a catastrophic disaster may result.
- Avoid installing or mounting the unit in unstable locations, such as on a rickety table or a slanted surface. Doing so may result in the unit falling down, causing personal injury and/or property damage.

When the Unit is in Use

- Should the following irregularity be found during use, immediately switch off the power, disconnect the power supply plug from the AC outlet and contact your nearest **ITC** dealer. Make no further attempt to operate the unit in this condition as this may cause fire or electric shock.
 - If you detect smoke or a strange smell coming from the unit.
 - If water or any metallic object gets into the unit
 - If the unit falls, or the unit case breaks
 - If the power supply cord is damaged (exposure of the core, disconnection, etc.)
 - If it is malfunctioning (no tone sounds.)
- To prevent a fire or electric shock, never open nor remove the unit case as there are high voltage components inside the unit. Refer all servicing to your nearest **ITC** dealer.
- Do not place cups, bowls, or other containers of liquid or metallic objects on top of the unit. If they accidentally spill into the unit, this may cause a fire or electric shock.
- Do not insert nor drop metallic objects or flammable materials in the ventilation slots of the unit's cover, as this may result in fire or electric shock.

1. SAFETY PRECAUTIONS

CAUTION

When Installing the Unit

- Never plug in nor remove the power supply plug with wet hands, as doing so may cause electric shock.
- When unplugging the power supply cord, be sure to grasp the power supply plug; never pull on the cord itself. Operating the unit with a damaged power supply cord may cause a fire or electric shock.
- When moving the unit, be sure to remove its power supply cord from the wall outlet. Moving the unit with the power cord connected to the outlet may cause damage to the power cord, resulting in fire or electric shock. When removing the power cord, be sure to hold its plug to pull.
- Do not block the ventilation slots in the unit's cover. Doing so may cause heat to build up inside the unit and result in fire.
- Avoid installing the unit in humid or dusty locations, in locations exposed to the direct sunlight, near the heaters, or in locations generating sooty smoke or steam as doing otherwise may result in fire or electric shock.

When the Unit is in Use

- Do not place heavy objects on the unit as this may cause it to fall or break which may result in personal injury and/or property damage. In addition, the object itself may fall off and cause injury and/or damage.
- Make sure that the volume control is set to minimum position before power is switched on. Loud noise produced at high volume when power is switched on can impair hearing.
- Do not operate the unit for an extended period of time with the sound distorting. This is an indication of a malfunction, which in turn can cause heat to generate and result in a fire.
- Contact your **ITC** dealer as to the cleaning. If dust is allowed to accumulate in the unit over a long period of time, a fire or damage to the unit may result.
- If dust accumulates on the power supply plug or in the wall AC outlet, a fire may result. Clean it periodically. In addition, insert the plug in the wall outlet securely.
- Switch off the power, and unplug the power supply plug from the AC outlet for safety purposes when cleaning or leaving the unit unused for 10 days or more. Doing otherwise may cause a fire or electric shock.

An all-pole mains switch with a contact separation of at least 3 mm in each pole shall be incorporated in the electrical installation of the building.

2. GENERAL DESCRIPTION

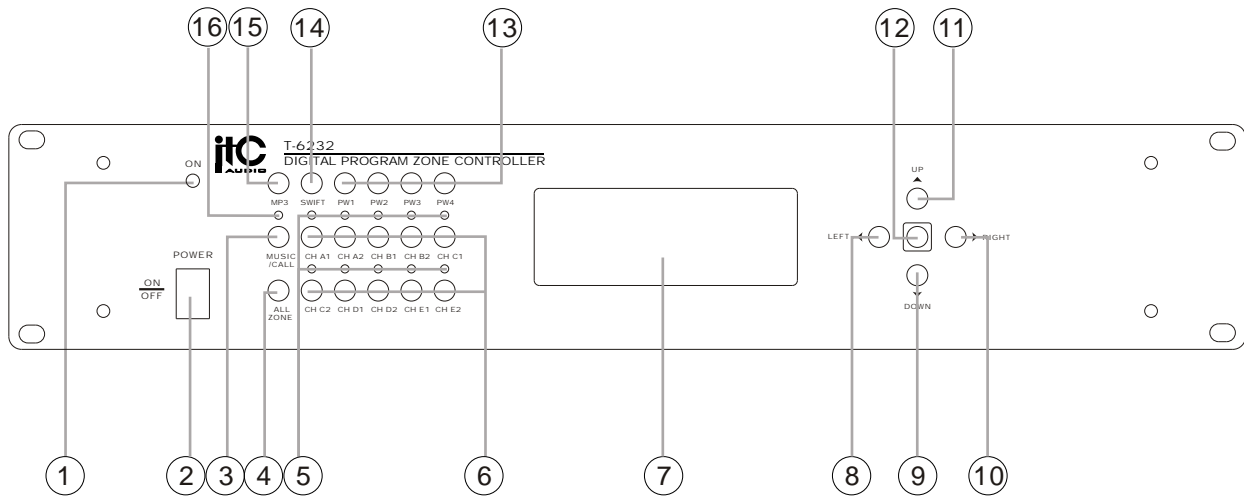
We are grateful to you for purchasing our PA System products, and we have full confidence to present you the high performance system units to you, because every process has strict control from design to delivery. Please read the manual within the packaging carefully before operation, and keep well for later reference.

3. FEATURES

- Light-touched button operation, LCD display, English operation interface.
- use USB download to store Mp3 music, it can be expandable memory, easy and convenient download MP3.
- The controller has 5 inputs and 10 outputs power zones, it can achieve automatic and manual zone BGM, It is the creative operation mode, it can turn on any zone at random.
- 24 hours exactly to seconds, all weather processing the procedures by week, timing play can up to 99 songs.
- Build-in monitor function, volume is adjustable.
- There are 4 channels programmable timing control power and 2 channels AUX power. Manual operation / Automatic works.
- File alarm signal triggering, auto power on , auto turn on all zones, triggering alarm generator or power distributor turn on alarm restoration and turn to normal BGM.
- It can control 16pcs speaker selectors T-6202, total 160 zones BGM signal can be switched.
- New program mode. 4 main programs, 1 backup program, there is swiftkey for the switch of day and the second day program.
- There is a key for temporary Mp3 playing, easy operation.
- Auto protection when power off, all programs will not lose, memory function is available.

4. NOMENCLATURE AND FUNCTIONS

4.1 FRONT PANEL



1. POWER

Power indicator Indicator green lights when power on

2. POWER SWITCH

On top of the opening power
Press the end, power shut down

3. MUSIC/CALL

Music and Paging Switch

4. ALL ZONE

All Zone Selector

5. CH A1~CH E2

10 Zone Indicator

6. CH A1~CH E2

10 Separate zone selector

7. LCD SCREEN

8. LEFT

Left search channel

9. DOWN

Down search channel

10.Right

Right search channel

11.UP

Up search channel

12.OK/MANU

13.PW1~PW4

PW1~PW4 Channels Power Control

14.SWIFT

Spare Program Control

15.MP3

MP3 Control

16.MUSIC/CALL

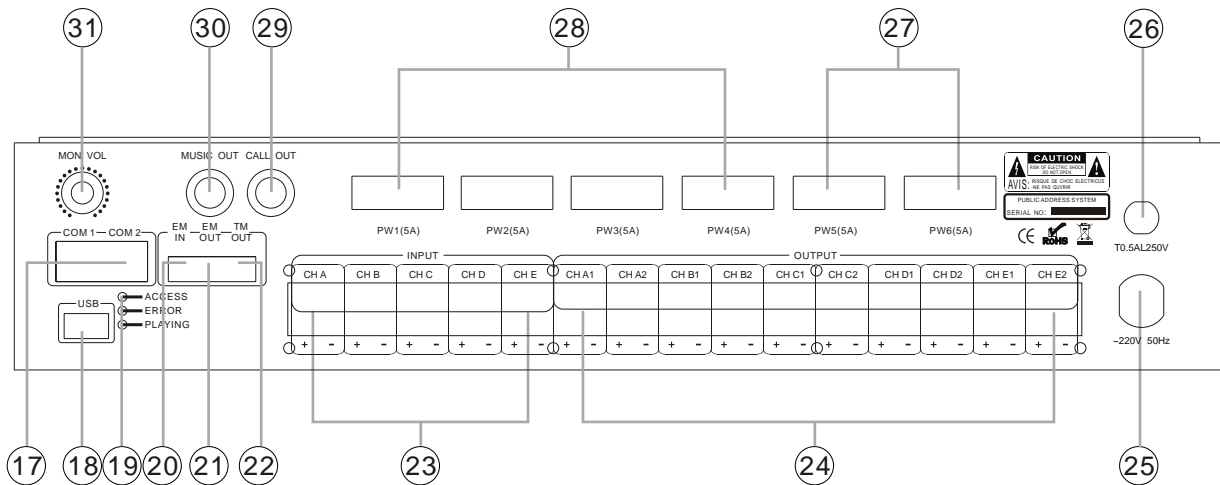
Mode Indicator

Cautions:

- 1 No instant power on or power off to avoid data in disorder,data lose,so power off after 10 seconds of power off for the microprocessor of the digital program zone controller.
- 2 When the system in EMC,only the OK/Manu key with the function to stop alarm, the left are out of function temporarily, all the keys restore to normal after alarming.

4. NOMENCLATURE AND FUNCTIONS

4.2 REAR PANEL



17.COM 1~COM 2

RJ45 Communication connector

18.USB

USB Port Download and store Mp3 song

19.MP3 INDICATOR

ACCESS: Yellow lights means reading

ERROR: Red lights means error happens

PLAYING: Green lights means Mp3 song is broadcasting .

20.EM/IN

EMC Signal Input

21.EM/OUT

EMC Signal Output, to control other alarm system units, such as Emergency Panel

22.TM/OUT

Power control short circuit output

23.INPUT

5 Channels Amp inputs

24.OUTPUT

10 zone speaker outputs

25.~220V/50Hz AC power input

26.AC FUSE

27.PW5~PW6

Spare power output

28.PW1~PW4

PW1-PW4 channel programmable power control output

29.CALL OUT

Spare connector

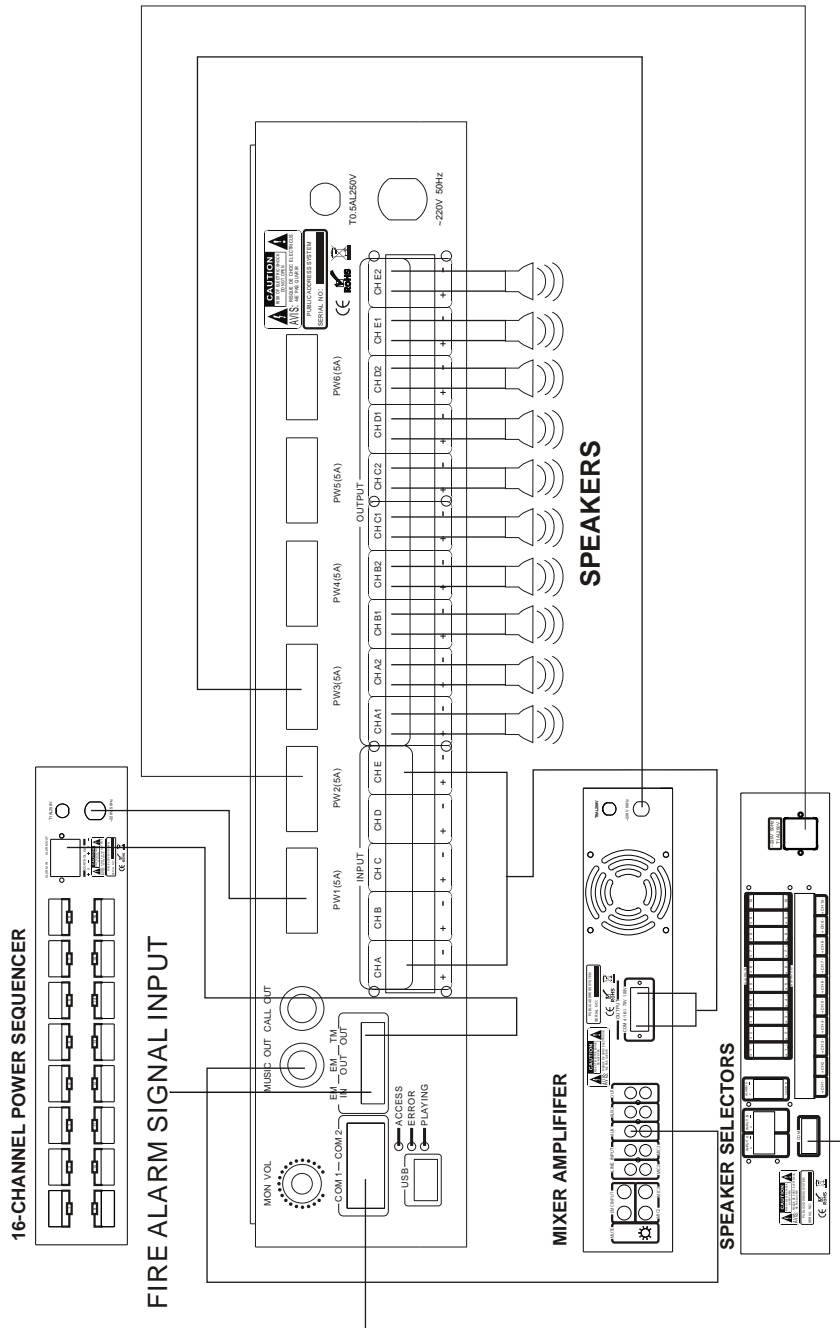
30.MUSIC OUT

MP3 output

31.MON VOL

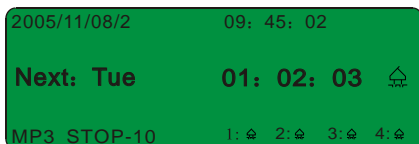
MP3 volume control

5. APPLICATIONS



6. OPERATION INSTRUCTION

6.1 SCREEN INSTRUCTION



First Line: Date, week and time

Example: 2005 /01 /01 /6 01: 01: 01

year month day week Hour minute second

Second Line: Time and content of next program following the present program

Example: Nex : Saturday 01: 02: 03 / / Power Subarea MP3

Third Line: Present program state

MP3:

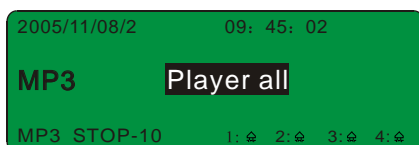
- 1 MP3▶ 08---02: 03: 20
BGM State, Music, Hour, Minute and Second
- 2 MP3 STOP---10
Stop and Total Music
- 3 MP3 ERR
No USB Storage or Error
- 4 MP3 WAITING
Reading MP3

POWER STATE:

1: 2: 3: 4:
 1.Off, ON

6.2 MP3 OPERATION

Push MP3 key to operate when it is on the main screen menu, then push



LEFT RIGHT To select music format or program,

ENTER key for MP3 format.

Caution:

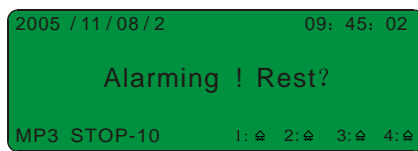
- 1 On MP3 screen. Push MP3 key to cancel the program insert.
- 2 On MP3 screen, the system will cancel the insert function without any Operation within 5 seconds.

6.3 ALARM OPERATION

If all zone alarm need only, the built-in EMC interface is available. First, connection as the case 2 for separate zone alarm, then power on all the alarm system units.

If there is fire alarm signal from the fire center into the Digital Program Zone Controller T-6232, then will EMC in all zones. Meanwhile, the built-in 6 channel power and 10 zones will all be power on, and EMC output to control the Power Sequencer and Emergency Panel.

When System in EMC, following will be displayed:



At this time, push key to stop alarm and all the function and power will be restored.

Caution:

- 1 When EMC, Digital Program Zone Controller T-6236 of the PA system should be connected with the fire signal from the fire center.
- 2 If need EMC, one Emergency Panel T-6203 is needed.

6.4 POWER CONTROL

Automatic or manual operation on the 4 programmable power, the system will restore to the history before power off.

The backup power will only on when one of the 4 programmable power is on; when all the 4 channel programmable power off, the backup back will off automatically. The EMC signal to control the power sequencer will be send if any power of the controller is on, and the signal will be canceled when all power off.

Caution:

In case of EMC, all the built-in power of Digital Program Zone Controller will be power off automatically and send the EMC of Power Sequencer and Emergency Pane.

6.5 5 MANUAL ZONE OPERATION

Push Music/Paging Switch.

Green for BGM and Red for Announcement.

Push 1-10 zone selector to open or stop BGM or Announcement.

Push all zone key to open all when in separate zone state and.

Push all zone key to close all zone when in all zone state.

6.6 AUTOMATIC OPERATION

Automatic operation is only available in case of on main screen and no separate zone announcement. When the Controller in EMC or separate zone announcement, the program will keep memory; when restore to Announcement or EMC, zone and power will be switched to new state.

If need automatic operation, please stop announcement or clear alarm and according to the program of the setting. If there is any spare program, the system will works according to the spare program.

If need to stop the automatic operation,only enter to the operation state will work out.

6.7 SPARE PROGRAM OPERATION

The spare program is for the fixed time but not fixed date.

Such as: The work and rest time of rainy and stormy date of college is different from usual, though the date is unfixed, the program for rainy or stormy date and the rest and work time is fixed, so the spare program will work.

The spare program can be set work on the day, or the expecting date, or the day and the following day.

The spare program control key is for setting and control the spare program operation. When the controller in the main screen, push **SWIFT** key, the four modes of the spare program will be following:

- : No display, no spare program
- 1 : Display 1,spare program for the day
- 2 : Display 2, spare program for the day's following day
- 1 2: Display1, 2, spare program for the day and the day's following day



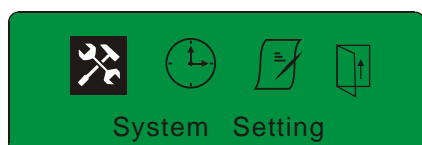
The spare program is only for one time, if need you can reset.

Caution:

The spare program is the fifth program

6.8 SERVICE MENU OPERATION

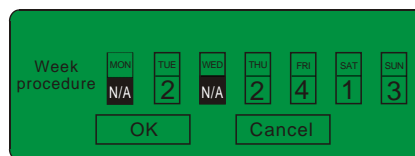
Push **ENTER** key to enter the menu operation when the controller in main screen,



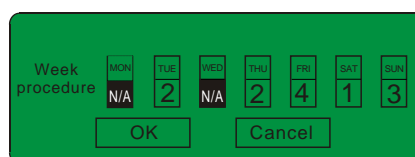
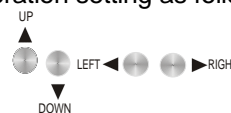
and push **LEFT** / **RIGHT** keys to select, and push **ENTER** to confirm. Also push key **ENTER** on the screen's EXIT to exit.

6.9 SYSTEM SETTING

Push **ENTER** key of the service menu to program and display following:



Automatic program operation setting as following:

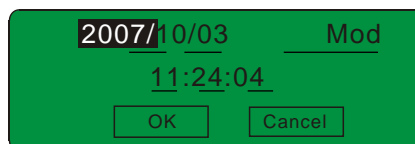


Push **ENTER** key on **AFFIRM** key to make amendment or affirmation.

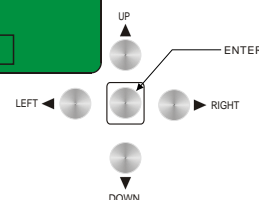
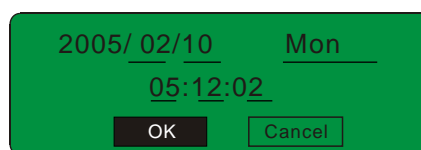
Push **ENTER** key on **CANCEL** key to cancel or exit.

7.0 TIME SETTING

Push **ENTER** key of the service menu to program and display following:



Push **UP** / **DOWN** / **LEFT** / **RIGHT** to adjust the year, month, date, week, hour, minute and second.



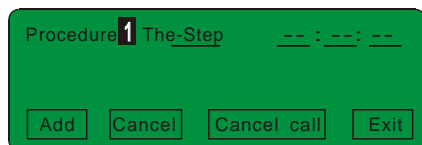
Push **ENTER** key on **AFFIRM** key to make amendment or affirmation,

push **ENTER** key on **CANCEL** key to cancel or exit.

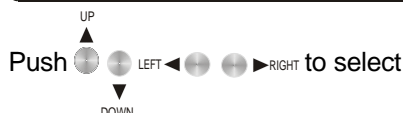
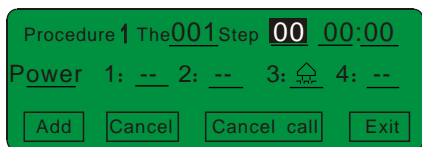
7.1 PROGRAMMING

Push **ENTER** key when the controller in the main screen, if no program the display as following:

OPERATION INSTRUCTION



If there is program, the display as following :



When the zone display "-" means keep the latest program, means connection, means disconnection. When power display "-" means keep the latest state, means power off, means power on.

Check program

First select the program and push keys to check the program.

If need to stop the automatic operation, only enter to the operation state will work out.

Edit

First select the program and push ENTER keys to amend the program.

Add

First select the program and push keys on ADD to add new program.

Delete

First select the program and push keys on DELETE to delete the program.

Delete All

First select the program and push keys on DELETE ALL to delete all the program.

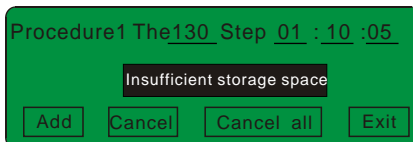
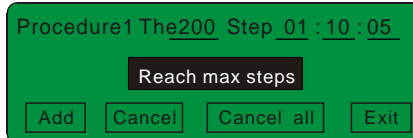
Edit

Push keys on EXIT to exit

Caution:

1 The controller display the ***step is only for indication, when add and edit programs, the controller will adjust automatically, but it is normal that the step number displayed is different from the real, however, the system will adjust automatically to the right step number when you enter the edit program screen again.

2 When the controller display the following, means your program had reached to 200 MAX, or your step of programs had reached to 512 MAX, you should release space for new program



7.2 MP3 STORAGE AND OPERATION

- 1 MP3storage supports USB, but only for 200mA output USB, no more than 200mA such as the USB work with notebook computer or rechargeable USB to avoid burn out.
- 2 MAX 99 sounds, the leftover will not work.
- 3 Support FAT, FAT32 format, FAX max 2G, FAT32 max 64TB.
- 4 USB storage card should have no subarea or not many files
- 5 Please use the USB storage card from our company to ensure high performance, otherwise, we will have any responsibility on it.

7.3 SETTING ADDRESS CODE

1. Hold the key of any zones constantly and turn on the unit's power in order to enter the state of address code setting.
2. Hold the key of "N" zones and also make the lamp light, which means this unit address code is "N".
3. Close the unit and then reboot.

7.4 CHECKING ADDRESS CODE

1. When unit on at instant moment, the light of "N" zone will be light alone firstly, which means the address code of this unit is "N", namely the Number "N" speaker selector.

Warning:

1. When unit on, zone 1 light is twinkling of the red and green color, it means the address code is not setting yet. We have to setting the address code firstly in order to make this unit work.
2. Speaker selector T-6202 can be only controlled by T-6232 according to different address code.

7. FAULT DIAGNOSE AND EXCLUSION

FAULT PHENOMENA	DIAGNOSE	EXCLUSION
NO DISPLAY ON THE SCREEN	<ol style="list-style-type: none"> 1 Power off 2 Power switch 3 Fuse burned 4 High or low temp 	<ol style="list-style-type: none"> 1 Power on 2 Switch on 3 Change AC 4 Change temp
KEY OUT OF FUNCTION	<ol style="list-style-type: none"> 1 Push on wrong key 2 In Announcement or EMC 3 The other keys are on pressed state 	<ol style="list-style-type: none"> 1 Enter the operation screen to operate again 2 Operate radiate alarm after announcement or EMC 3 Release the pressed key
NO USB DISPLAY	<ol style="list-style-type: none"> 1 USB out of function 2 Improper connection with USB 3 USB output more than 200mA, such as USB works with notebook computer, rechargeable USB or with special symbol 	<ol style="list-style-type: none"> 1 Delete not Mp3 format file 2 Change the hidden setting 3 Remove Mp3 of other files except the storage root directory
NO MP3 DISPLAY	<ol style="list-style-type: none"> 1 Improper Mp3 format 2 Mp3 with hidden setting 3 Over number of Mp3 sound 	<ol style="list-style-type: none"> 1 Delete not Mp3 format file 2 Change the hidden setting 3 Remove Mp3 of other files except the storage root directory
UNSTABLE MP3 BROADCASTING	<ol style="list-style-type: none"> 1 Low Volume 2 Errors in BGM 	<ol style="list-style-type: none"> 1 Adjust the volume of MP3 itself 2 Delete all the other files

FAULT DIAGNOSE AND EXCLUSION

(CONTINUATION)

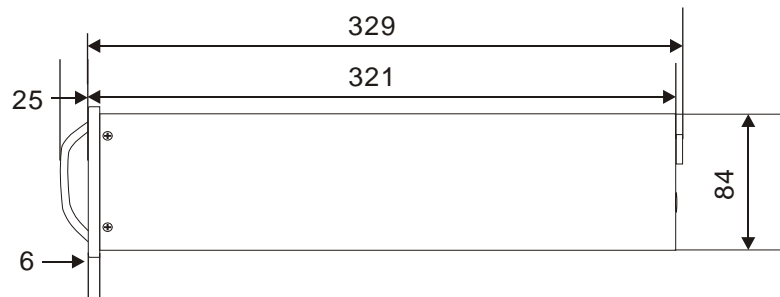
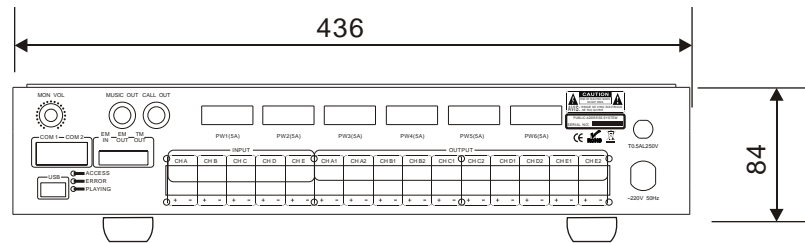
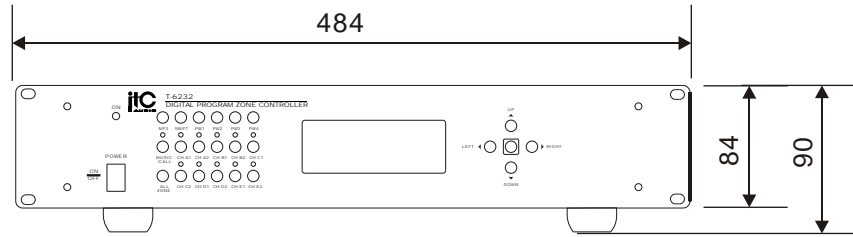
NO AUDIO OUTPUT	<ol style="list-style-type: none"> 1 Improper connection, 2 No output from the audio source 3 No power on amplifier 4 Volume closed of amplifier 	<ol style="list-style-type: none"> 1 Change the proper connection 2 Check the audio source 3 Power on amplifier 4 Open the volume of amplifier
NO MONITOR VOLUME	<ol style="list-style-type: none"> 1 Monitor Volume closed 	<ol style="list-style-type: none"> 1 Open the volume slowly
NO POWER OUTPUT	<ol style="list-style-type: none"> 1 No Power On 	<ol style="list-style-type: none"> 1 Automatic or manual power on
POWER OUTPUT SOCKET WITH POWER	<ol style="list-style-type: none"> 1 Here is 100V current exist on the socket because the built-in anti-interference circuit 	<ol style="list-style-type: none"> 1 Normal phenomena
POWER SEQUENCER OUT OF CONTROL	<ol style="list-style-type: none"> 1 Improper connection 2 The lock on of Power Sequencer 3 The state switch is on left 4 No power on, and no announcement and alarm 	<ol style="list-style-type: none"> 1 Change to proper connection 2 Open the lock to OFF state 3 Switch to right 4 Power Sequencer only

8. SPECIFICATIONS

DIGITAL PROGRAM ZONE CONTROLLER	
MODEL	T-6232
COMMUNICATION SPEED	4800bps
MP3 FREQUENCY RESPONSE	20Hz-20KHz/ ± 1 db
MP3 S/N RATIO	95db
MP3 STORAGE MEDIUM	Storage Card support USB connector
MP3 STORAGE FORMAT	FAT and FAT32
AUDIO OUTPUT	10hms/1V
THD	0.1%
FREQUENCY RESPONSE	30Hz-20KHz
MONITOR SPEAKER WATTAGE	0.5W
TIME FORMAT:	24Hours
COMMUNICATION TERMINAL	RJ45
COMMUNICATION PROTOCOL	RS422
ALARM INPUT	Short circuit (0V)
ALARM OUTPUT	Short circuit (0V)
POWER CONTROL OUTPUT	Short circuit (0V)
POWER INPUT	$\sim 220V / \pm 10\% 50Hz$
POWER OUTPUT	$\sim 220V / \pm 10\% 50Hz$
OUTPUT WATTAGE	Total Power $\leq 5KW$, One-way Power $\leq 3KW$
POWER CONSUMPTION	30W
PROTECTION	AC FUSE $\times 0.5A$
DIMENSION(MM)	484X350X88
N/W(KG)	5.3Kg
G/W(KG)	6.8Kg

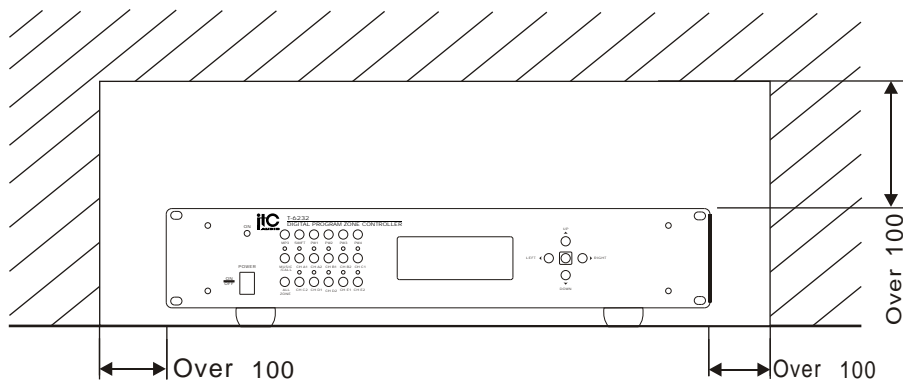
9. DIMENSIONAL DIAGRAM

UNIT :mm



Keep the unit's all sides over 10 cm away from objects that may obstruct air flow to prevent the unit's internal temperature rise.

UNIT :mm



PUBLIC ADDRESS SYSTEM



Guangzhou ITC Electronic Technology Limited
[Http://www.itc-pa.com.cn](http://www.itc-pa.com.cn)