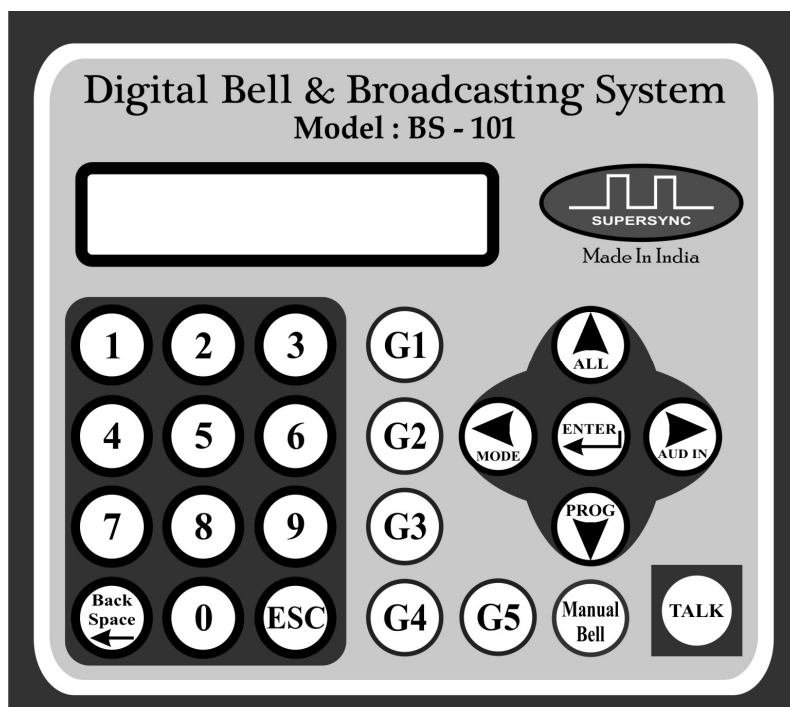


## OPERATING MANUAL- MODEL : BS-101

Refer the attached connection diagram to install Slave units in all classrooms of your premises. Part Id is mentioned on the sticker pasted on right side of each Slave Unit. For room no. 1 use Slave unit with Part ID – 1, for room no. 2 user slave unit with Part ID – 2 and likewise. After completion, power up the system and follow below mentioned procedure.



Above is the image of keypad on machine. All following features are explained using these keys.

### Home Screen:

- In standby state screen will display current time and calendar in top row and Current running Mode - Active Program Number -Next Bell Time in Second row. Functions can be initiated only when system is at Home screen

01 May MON 10:10 SUMMER P01 11:00
--------------------------------------



## Making General announcement: (All Call)

- Press ALL (Top Arrow) key on Home screen to switch machine to All Call Mode. Announcements made in this Mode will be audible to all rooms connected with this system. Display will change as shown at right side.

TALK KEY = PTT  
0 KEY = HANDS FREE

- To speak you can opt either to two options:
  - Talk Key = PTT means hold TALK key while speaking. Voice will be transferred to all slave units only until Talk key is pressed. Screen will show Speak Now message when system is ready to transmit voice to slave units.
  - 0 Key = PTT, if you need to announce for a longer time press 0 key and system will go under hands free mode. No need to hold Talk Key while speaking. Screen will show Speak Now message when system is ready to transmit voice to slave units.

SPEAK NOW

Use ESC to come back to Home Screen.

## Making group call:-

- Keys G1 through G5 are programmed for making group calls. On home screen press G1 for calling Group-1. Display will change as shown at right side for 02 Sec and Press to talk screen will appear.
  - Press to Talk function will work same as explained in ALL CALL Description.
  - Likewise you can use G2,G3, G4 and G5.
- Use ESC key to roll back to Home Screen.

1 GROUP SELECTED

TALK KEY = PTT  
0 KEY = HANDS FREE

SPEAK NOW

## One to One calling to Single Room:-

- Enter room number in two digits on home screen as shown.
- Press Enter key, screen will change as shown at right side. User can listen audio from selected room.
- Press to Talk function will work same as explained in ALL CALL Description. Once you will press Talk Button, you voice will be transferred to all Slave units.

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TALK KEY = PTT  
0 KEY = HANDS FREE

SPEAK NOW

Press Esc key to exit.

## Calling to Random Group of Rooms:-

- System has a provision to call group of rooms selected randomly.
- Enter room numbers that you wish to talk, Maximum of 10 rooms can be entered as shown at right.
- Press Talk Key (Do not press ENT key) directly, you can start Making announcements once you get Speak Now display.  
Press Esc Key to exit.

01 05 08 09 10  
11 02

SPEAK NOW

## Playing External Audio:-

- System has the provision through which user can play audio Like any music, pre recorded message etc through PC, Laptop, Mobile, Tablet etc. using 3.5mm Jack cable.
- Plug you device through 3.5mm jack cable with Master controller through 3.5 mm female jack at the back side of Master Unit.
- Press AUD IN (Right Arrow Key) on Home screen.
- Display will switch to the screen as shown on the right side.
- Play the required music and press ESC to exit.

EXTERNAL SOUND  
ESC TO QUIT

## Manual Bell:-

- To listen factory loaded 53 bell sound files press Manual Bell key on home screen.
- Adjacent display will appear.
- User Up arrow and Down arrow keys to change file numbers and press Enter to play.
- Use ESC to roll back to home screen.

MANUAL MODE  
FILE Srl. No. 01

## Mode:-

- Automatic School Bell system can be programmed to run in three modes viz. Summer (SUM), Winter (WNT) and Examination (EXAM).
- To switch between these functionalities press MODE key (Left Arrow key) on Home Screen. Adjacent menu will appear:
- Use right and left arrow keys to move cursor and press Enter to Select the desired mode of operation.

SELECT MODE  
SUM WNT EXAM



## PROGRAMMING

It is a very easy to program system using full keypad and LCD display. To enter in programming mode, press PROG key (Down arrow key) on home screen. Display changes as shown at right side.

PROGRAMING MODE

It stays for 02 Seconds and then main Menu screen is displayed as shown at right side. Cursor blinking on first character of top row. Using Up and Down arrow keys user can switch between various menu option.

SET DATE & TIME  
MAKE GROUPS

**Exit programming:-** Any time during programming press ESC key to exit Programming and rolling back to home screen.

### Setting Date & Time:-

- Press Enter key when cursor is on SET DATE & TIME Display will change at shown at right side.
- Use UP and DOWN arrow keys to change the value and RIGHT-LEFT key to move cursor.
- Press Enter key to save the values.

01 MAY MON 10:10  
SET DATE & TIME

### Making Groups:-

- Press enter key when cursor is on MAKE GROUP menu option.
- Display will change as shown at right side. Use Right & Left arrow keys to move cursor to desired group no. and press enter key.
- Display will change as shown at right showing current rooms in the group. Maximum 10 rooms entered to make one group.
- Edit existing room numbers or add new using number keys and Backspace key to delete.
- Press enter key to save, display will change as shown at right
- Make all groups in similar way. Press ESC to roll back to Main Menu.

SELECT GROUP  
1 2 3 4 5

01 03 04 05 06

SELECT GROUP  
1 2 3 4 5

SET DATE & TIME  
MAKE GROUPS

BELL SCHEDULES  
SUMMER WEEK DAYS

PROG NEW\_SCH<sub>E</sub>DUL  
COPY OLD SCHEDUL

### Bell Schedules:-

- Use Down Arrow key from adjacent screen to come at BELL SCHEDULES menu.
- Use Enter key to enter into Bell Schedule menu.
- Adjucent Screen will appear. Where you will get Two Options:
  - Prog New Schedule
  - Copy Old Schedule.

Through this menu, user can store **24 different time table schedules** i.e P-01 to P-24.

Each schedule can be programmed with **50 bells for a day**. So user can store 24 different schedules of 50 bells each covering all possible combinations of a year.

Through **Prog New Schedule** user can program a new time table or edit an existing time table in either of the program schedule i.e. P-01 to P-24.

Through **Copy Old Schedule** user can copy already programmed time table from one program schedule to another program schedule. For Example user has programmed a time table in schedule no. P-05 and he needs to program a new time table with just two modifications in already running program schedule P-05. So user can Copy P-05 to P-06 through this option and edit P-06 with only two modifications. No need to enter complete time table again in P-06.

- Prog New Schedule: Press Enter key to enter into this menu. Adjacent screen will appear.
- User Up and Down arrow keys to select the program schedule which you wish to program between P-01 to P-24 and press Enter. Adjacent screen will appear.
- Machine will then ask to enter total bells required to ring in 24 hours. Maximum option of 50 bells is available. Use Number Keys to change value and press Enter to move forward. Adjacent screen will appear:
- Here user has to program exact bell time and file number of 1<sup>st</sup> bell of the day. Use Number keys to change values and Right-Left keys to move cursor to desired location.
- Total 53 Sound Files are factory loaded in Micro-SD card. List of these 53 sound files can be referred through Appendix-A enclosed with this operating manual. User can uploaded Total 99 such sound files in MP3 format to this MicroSD card.
- Use Backspace key anytime during programming schedule to go to previous step . Use '**Enter**' key to save and move to next screen. After programming last bell of the day, press '**Enter**' to return to the Select Schedule Screen.

```
SELECT SCHEDULE
P-01
```

```
P-01 TOTAL BELLS
50
```

```
01 BELL TIME PRD
07:30 FILE 05
```

```
SELECT SCHEDULE
P-01
```

Likewise user can program the entire day schedule. Please note the clock works in 24 Hours clock Schedule, so for programming 01:00 PM enter 13:00 hours.

Follow exactly same procedure to program all 24 Program Schedules. Use "**ESC**" key on adjacent screen to roll back to main menu.

```
BELL SCHEDULES
SUMMER WEEK DAYS
```

### Summer Week Days:-

- Use DOWN arrow key to bring cursor on Summer Week Days option.
- There are basically three modes of allotting various program schedules to various weekdays.
  1. Summer Week Days.
  2. Winter Week Days.





### 3. Prog Exam Days.

Following is the process of programming Summer Weekdays. Likewise user can program weekdays for remaining two modes.

- Summer Week Days: Use ENTER key to on above menu to enter. Adjacent screen will appear:
- The screen shows various week days of a week. Use Left & Right key to Move cursor to desired day of the week and press Enter to select. Adjacent screen will appear.
- Suppose I've saved my schedule in P15 and want to run the same time table from Mon to Wednesday. So I'll select P15 in all week days from Mon to Wed. Use number keys to enter program schedule.

```
SUMMER WEEK DAYS
M -T -W -T -F -S -SUN
```

```
SUMMER WEEK DAYS
THU P??
```

```
SUMMER WEEK DAYS
MON P15
```

```
SUMMER WEEK DAYS
TUE P15
```

```
SUMMER WEEK DAYS
WED P15
```

- For Thursday to Saturday suppose I've a separate time table which I've saved in P10. So I'll select P10 for Thu to Sat and Sunday as Holiday. For Holiday select P00.

```
SUMMER WEEK DAYS
THU P10
```

```
SUMMER WEEK DAYS
FRI P10
```

```
SUMMER WEEK DAYS
SAT P10
```

```
SUMMER WEEK DAYS
SUN P00
```

To exit use '**ESC**' key, following screen will appear.  
Like wise user can program Winter Mode and Exam Mode.

```
BELL SCHEDULES
SUMMER WEEK DAYS
```

### Calendar Holidays:-

- Press Enter to select this option. Here user can program maximum 10 calendar Holidays for every month of year. So in total 120 Holidays can be programmed in a year except weekly holidays like Sunday.
- Adjacent screen will appear. Select YES if we have calendar holidays or NO to exit.
- On pressing YES, adjacent screen will appear. Select Month using UP and Down arrow keys in which user needs to store Holidays. Either to following screen may appear:

```
CALENDAR HOLIDAY
MONTHLY DAYS
```

```
CALENDAR HOLIDAY
YES NO
```

```
SELECT MONTH
AUG
```

```
01 10 15
```

```
?? ?? ?? ?? ??
?? ?? ?? ?? ??
```



- We assume we have 5 Holidays in AUG month as in dates 02, 09, 15, 24, 30. Use Number keys to enter dates and shown in adjacent screen and press Enter to save.
- Repeated entries will automatically be deleted. Likewise user can program 10 holidays for every month.
- To Exit press '**ESC**' key, you will reach to next menu.

02	09	15	24	30
??	??	??	??	??

CALENDAR HOLIDAY  
MONTHLY DAYS

### Monthly Days:-

- Press Enter to select the menu option. Here user can program maximum 2 special schedules or Holiday for maximum 2 days of month. For example we assume that school has holiday on second Saturday of every month and a special schedule saved in P-05 on every fourth Saturday. Follow following steps to program the same:
- Adjacent screen will appear after select this menu.
- If you don't have any Monthly days option then select NIL and come press enter to come out of menu.
- As per our above example we have two special schedules. So use UP arrow key and select 2 in place of NIL.

MONTHLY DAYS  
NIL

- Following screen will appear:

1 MONTHLY DAYS  
1<sup>st</sup> MON P-??

MONTHLY DAYS  
2

- As per our example we have to program second Saturday as Holiday. So use UP key to select 2<sup>nd</sup> than Right key to move cursor to Day and select SAT in place of MON, than again right key to move cursor to program schedule P-??. Here in place of question marks use UP and Down key to make it P-00. Press Enter to Save and more to second step.

1 MONTHLY DAYS  
2<sup>nd</sup> SAT P-00

- Next we have to program P-05 to run on every fourth Saturday. Follow same procedure as mentioned in above point to make fourth Saturday run with P-05.

2 MONTHLY DAYS  
4<sup>th</sup> SAT P-05

- Press Enter to save and exit to main menu.

MONTHLY DATES



## Monthly Dates:-

- Like Monthly days, in Monthly Dates menu user can program maximum 2 dates of month with holiday or with some special schedule. For Example we assume school has holiday on Last working day of every Month and special schedule saved in P-20 to run on 15<sup>th</sup> date of every month.

MONTHLY DATES

2

1 MONTHLY DATES  
LAST DATE P-00

1 MONTHLY DATES  
15 P-20

- Press Enter to Save and Exit.

---

## Caution:

1. Follow Connection Diagram before installation.
2. One wrong connection may damage complete system.
3. Never connect AC main supply or DC supply on Audio IN or Out terminal of Master unit or any slave unit.
4. Maintain a constant supply voltage at 220V 50Hz AC.
5. Avoid any cable to get routed near to high tension power line or any transformer or any device generating magnetic field. Installation in these conditions may lead to distortion in audio quality,
6. Keep away from direct sunlight and water.
7. Keep power supply in ventilated area.
8. Keep away from pointed needles or pointed edges, this may damage LCD display.

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