

# **M.V. INSTRUMENTS.**

*Mfrs. of: Industrial Process Control Instruments,  
Stainless Steel Float Sensors, Liquid Level  
Controllers/Indicators, Sirens, Timers, Automatic  
Programmable School Bell and Special Purpose Machines.*

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## **Instruction Manual for Intermission Call Bell.**

The System works with 230V AC Power Supply and has following controls and Indications in front Panel.

1. 16 Digit – 2 Line Alphanumeric Display which shows Real time and next Bell Time for that day.
2. Three position Power control Switch: this switch has
  - ⊗ Top position :- Auto Position, in which the system works in auto-bell Mode
  - ⊗ Middle position: - OFF position, in which the system will be in total OFF condition.
  - ⊗ Bottom position: - In this position in which Bell can be operated manually by pressing the push switch which is provided.
3. Key controlled switch to Enable or Disable Program Edit Function.
4. Five “Membrane Key Switches”, namely – Edit/Set key, Up key, Down key, Right key and Left key. [Up, Down, Right and Left are indicated by arrows on the Keys].
5. Red blinking LED to indicate Auto mode status.

### **Power and Bell connection Procedure:**

1. **The system has a 4 way terminal block at the bottom, where power connection has to be given.**
2. **Connect 230V AC Power supply to the Power terminal and two terminals of electrical bell to the Bell terminal as mentioned in the sticker on the timer unit.**
3. **Put the Power switch to manual position and press the bell to confirm that bell is working.**
4. **Put the Power switch to Auto position and confirm that Display comes, with backlight and beep, indicating “INTERMISSION” and “CALL BELL” for few seconds and the system will display the name of the institution for few more seconds then display starts showing Time in HH:MM:SS AM format. Backlight goes off after 60 seconds but red blinking led continues to come.**

### **Brief explanation of program structure.**

The system keeps track of real time and displays the same. The system can record 30 or 15 short bell events and 10 or 5 Long bell events, as per the model chosen. Up and Down keys can be used to scroll through real time and all Bell events one after the other. All the bell events can be independently programmed, as on which are the days that bell event should occur. As a default the system assumes Sunday to be holiday for all the bells and all the remaining days to be working. If there is any change in it, it can be edited as per the requirement. Apart from this if any given day is a holiday pertaining to festival or any other reason one week in advance that particular day can be set not to ring any bell. That setting gets automatically reset for the next week.

The duration of the bell ringing time is 4 seconds for short bell and 8 seconds for long bell. The bell duration can be altered if required by the user.

### **Programming Procedure:**

1. Switch on the system in Auto mode. The display indicates “**INTERMISSION**” and “**CALL BELL**” for few seconds and the system will display the name of the institution for few more seconds and then display starts showing Real Time and day in **Ddd, HH:MM:SS AM** format with backlight and Red LED starts blinking. Backlight goes OFF after 60 seconds but Red LED continues to blink.
2. Put the Program lock key in ON position to allow editing of program.
3. To edit day: If the system day displayed need to be changed,
  - ⊗ Press edit/set key → Day cursor starts blinking
  - Press up/down key to edit the day.
  - Press edit/set key → Day cursor stops blinking.
4. To edit real time: If the system time displayed need to be changed,
  - ⊗ Press edit/set key → Day cursor starts blinking

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- Press right key to shift the cursor to hour.
- Press up/down key to edit the hour.
- Press right key to shift the cursor to minutes.
- Press up/down key to edit the minutes.
- {When Up key is pressed, minutes gets incremented in steps of 5 minutes, and with Down key it decrements for every minute.}
- Press edit/set key → seconds gets reset and starts from 00 seconds.
- 1 **Now To set AM/PM :-**
- Press edit/set key → Day cursor starts blinking
- Press left key, now AM (or PM) cursor starts blinking
- Press up/down key to edit AM / PM.

Now real time is set.

## 5. To View/Program "Short Bell 1": When system is showing real time and day,

- ⊗ To set Status & Time. → Press up key
- Display shows heading as : **"SHORT BELL : 01"**
- and in second line as : **"Off HH:MM AM →"**
- Press edit/set key → "Off" cursor starts blinking **"Off HH:MM AM →"**
- Press up/down key to set the bell ON
- Press right key to shift the cursor to hour value.
- Press up/down key to edit the hour.
- Press right key to shift the cursor to minutes value.
- Press up/down key to edit the minutes.
- Press edit/set key → Cursor starts blinking next to AM (or PM)
- Press up/down key to edit AM / PM.
- Press edit/set key → Now Short Bell 1 is programmed as per the time set.
- ⊗ To do Day Programming for Short Bell 1, when display is showing Short Bell 01 menu on screen,
- Press right key
- Display now shows **"Sun Mon\* Tue\* Wed\***
- and in second line **"Thu\* Fri\* Sat\* ←"**
- { \* indicates that the bell will be ON on that particular day}
- Press edit/set key → Cursor starts blinking next to "Sun"
- Press up/down key to set the bell ON/OFF for that particular day
- Press right / left key to navigate through the days and up / down keys to set the bell ON/OFF.
- Press edit/set key → Cursor stops blinking.
- Press left / right key to shift to main screen

Now Short Bell 01 is set.

## 6. To View/Program "Short Bell 2": When system is showing "Short Bell 1",

- ⊗ To set Status & Time. → Press up key
- Repeat the procedure same as done for Short bell 01

## 7. With the same procedure all the Short bell and Long bell events can be programmed one after the other.

## 8. To set a holiday which would occur in the coming week, press right key when system is showing real time.

- Press right key

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- Display now shows “Sun\* Mon\* Tue\* Wed\* ”
- And in second line “Thu\* Fri\* Sat\* ←
- { \* indicates that it will not be holiday on that particular day}
- Press edit/set key → Cursor starts blinking next to “Sun”
- Press right / left key to navigate through the days and up / down keys to set the day holiday
- Press edit/set key → Cursor stops blinking.
- Press left / right key to shift to main screen

*Now holiday is set for that particular day.*

9. To set the Short bell and Long bell ringing duration:

The system as a default comes with 4 seconds duration for Short bell ringing and 8 seconds duration for Long bell ringing. Whereas this can be directly adopted, if there is a requirement to change the duration, it can be achieved as follows.

Switch OFF the system and Wait for 10 seconds. Keep both Edit key and Right Key pressed continuously and then switch ON the System. Release both keys simultaneously when gives a beep and system displays “INTERMISSION” and “CALL BELL”. Now display screen shows Bell Duration:

- Now display screen shows “BELL DURATION: ”
- and in second line “ SHORT: 04 LONG: 08”
- Cursor will be blinking near “04” value
- Press up/down key to set new Short bell duration
- Press right key to shift the cursor to Long bell duration value.
- Press up/down key to set new Long bell duration
- Press edit/set key → Cursor stops blinking
- Now display screen shows “BELL DURATION: ”
- and in second line “ \*\* UPDATED! \*\* ”
- Now system restarts itself and starts as usual.

*Now Short Bell and Long Bell durations are edited.*

10. To completely erase the programmed bell timings and bell duration:

Switch OFF the system and Wait for 10 seconds. Keep both Edit key and Left Key pressed continuously and then switch ON the System. Release both keys simultaneously when system gives a beep and displays “INTERMISSION” and “CALL BELL”. Now display screen shows “Loading Defaults, Wait...” And then it displays “Defaults Loaded. ”

To crosscheck the set program press up/down key to scroll through the bell events, check the timings and, when a bell event is being shown, press right/left key to view day programming. Now the stored values will remain permanently in the system memory unless otherwise edited. Switch OFF the program lock key and remove the key from system to avoid unauthorised editing of program.

**In case of any further doubt and clarification please call helpline → 098452 25674.**