

# **MICROSOUND SYSTEMS**

**Time switch**

**Model TS511**

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# 1 - Operation

## 1.a Buttons

- A - Arm / Disarm alarms (only during normal time display)
- B - Bell (Manual)
- C - Cancel Alarm (during alarm function)
- D - Display Alarm (during alarm function)
- E - Enter time or alarm (time during time function)  
(alarm during alarm function)
- F - Time / Alarm / Extra (select)

## 2 - Display Modes

- 0 - Displays normal time.
- 1 - 't' Time
- 2 - 'A' Alarm
- 3 - 'E' Extra channel (Only when installed)

## 3 - Clock Functions

### 3.a New Time

Enter a new time by selecting time function using 'F' and then the mode display will indicate 't' and the day will be flashing. Enter a new day and time as the flashing

display changes. When it is correct, press 'E'. The display will change back to time.

### 3.b New Alarm

Enter a new alarm by pressing the function button 'F' until the mode display indicates 'A' (or 'E' for the second channel when the second channel is installed), the day will flashing. Enter a new alarm as the flashing display changes. When it is correct, press 'E'. You can enter another alarm or press 'F' twice to return to the current time.

### 3.c Canceling a alarm

Canceling a alarm time. Press the function button 'F' until the mode display indicates 'A', use 'D' to select the alarm you want to remove, then press 'C'. The alarm will be removed and the next alarm will be displayed.

### 3.d Clearing all alarms

Clearing all alarms. Switch the clock off, Press '0' and '4' and hold the two buttons down while the power is turned on. If the buttons were held down correctly the display will display '-- ----'. When all the alarms are clear the clock will sound three beeps.

## 4 - Programming

### 4.a Alarm times

Enter a new alarm by pressing the function button 'F' until the mode display indicates 'A', the day will be flashing. Enter a new alarm as the flashing display changes. When it is correct, press 'E'. You can enter another alarm or press 'F' twice to return to the current time. One hundred and ten alarms can be entered

To enter alarms for the second channel, proceed as above with 'E' displayed in the left most window. If the display shows 'FULL' when the enter 'E' button is pressed and it is the first alarm then it means the second channel is not installed. One hundred and ten alarms can be entered

### 4.b Alarm Duration

Remove the front panel of the unit. A bank of four miniature switches are mounted on the printed circuit board inside the front portion on the unit.

When switch No. 1 is 'on' 1 second duration is set.

When switch No. 2 is 'on' 2 second duration is set.  
When switch No. 3 is 'on' 4 second duration is set.  
When switch No. 4 is 'on' 8 second duration is set.

When all 4 switches are 'on' the duration is  $1+2+4+8 = 15$  seconds.

#### 4.c Programming Tip

Programming the same alarm for every day is easily done. Enter the first day and time you want then press enter (E), now only enter the new day and press enter (E) again. Repeat this operation until all the days are done.

## 5 - Technical Specification

#### Dimensions:

Height 130mm, Width 211 , Depth 45mm.

#### Programmable operations:

110 (may be freely allocated throughout seven-day period).

#### Battery reserve:

Retains memory setting for a period of one year, once battery is fully charged.

#### Voltage rating:

220v/240vac through power adapter or 9 - 24vdc direct.

#### Maximum contact rating:

30w/60va, 2A AC or DC, 150vdc or 125 ac.

#### Clock accuracy:

+/- 1 minute per month.

#### Termination:

1	-	Ground
2	-	9 - 24v from power adaptor
3	-	Relay 2 Common
4	-	Relay 2 NC (Normally closed contact)
5	-	Relay 2 NO (Normally open contact)
6	-	Relay 1 Common
7	-	Relay 1 NC (Normally closed contact)
8	-	Relay 1 NO (Normally open contact)

## **6 - Guarantee**

Equipment is guaranteed by the manufacture for a period of six months from the date of delivery against faulty components and workmanship (ex Factory).

Manufactured by:

Microsound Systems

P.O. Box 38220

Booysens

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Phone 011 493-2424 Fax # 011 493-0347