



JD-MEDIA

OPERATING INSTRUCTIONS

사용설명서

PROGRAM TIMER MODULE TM-100



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RISQUE DE CHOCS ELECTRIQUES
NE PAS OUVRIR

AVIS: POUR EVITER LES RISQUES D'INCENDIE OU D'ELECTROCUTION, N'EXPOSEZ PAS CET ARTICLE A LA PLUIE OU A L'HUMIDITE



Le poing d'exclamation à l'intérieur d'un triangle équilatéral est employé pour alerter les utilisateurs de la présence d'instructions importantes pour le fonctionnement et l'entretien (service) dans le livret d'instruction accompagnant l'appareil.

- (DCF77)
- *. 16 2 LCD
- (DM-xxx).
- 가
- [
- 80
- 1 1
- (DM-xxx)-----6
- 3
- 4
- 4
- (DC 18V)
- (173[W] * 37[H] * 95[D] mm).

- * Memory : Max 80 EA
- * Memory Section : Min 1 minute ~ Max 1 week
- * Digital message output
(Connecting with DM-100) : 6 Ch.
- * Relay Output : 3 Ch.
- * Chime Button : 4 button
- * External Chime Input : 4 Ch.
- * Power : DC 18V
- * Size : 173[W] × 37[H] × 95[D] mm

1. Program Setup And Store

- Time schedule operating or stop setup by memory.
- Convenient memory editing and save.
- Memory delete.
- Monthly calendar real time setup and save.
- Setup and save per chime button.

2. Setup and memory per memory number

- Setup chime Gong.
- Digital message setup.
- Setup relay type.
- Setup relay operating time.
- Setup chime with relay operating simultaneously or delay operating.

3. Chime and save per chime button

- Setup chime Gong.
- Digital message setup.
- Setup relay type.
- Setup relay operating time.
- Setup chime with relay operating simultaneously or delay operating.

4. Input And Output Channels

- Memory ----- Max. 80.
- Memory Interval ----- Min. 1 Min. ~ Max. 1 Week.
- Digitam Message (Refer to DM-100) ----- 6 Ch.
- Relay Output ----- 3 Ch.
- Chime Input Button ----- 4 Button.
- External Chime Input Terminal ----- 4 Ch.
- Built In Chime.
 - Chime A ----- 4 Tone.
 - Chime B ----- 3 Tone.
 - Chime C ----- 2 Tone.
 - Chime D ----- EU Siren.
- Output Time of Built In Chime.
 - Chime A ----- About 5 Sec.
 - Chime B ----- About 4 Sec.
 - Chime C ----- About 2 Sec.
 - Chime D ----- About 11 Sec.

5. Power And Dimensions

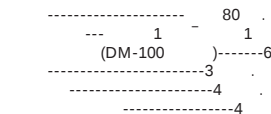
- Only DC 18V.
- Modular Type. (173[W] * 37[H] * 95[D] mm).

1.

2.

3.

4.

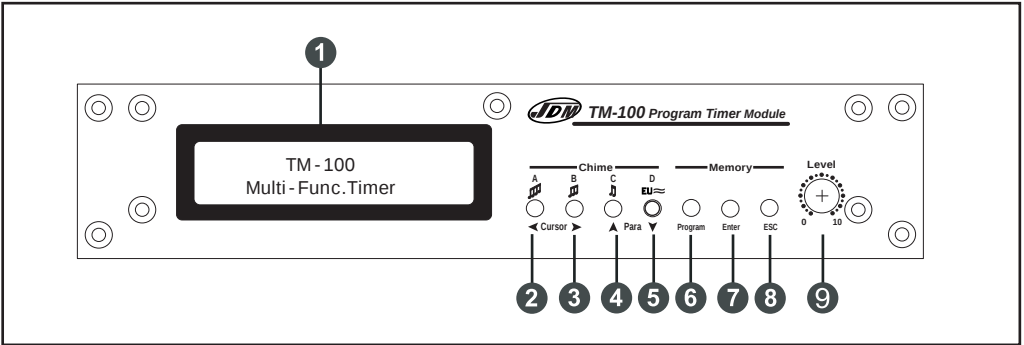


A	-----	4
B	-----	3
C	-----	2
D	-----	
A	-----	5
B	-----	4
C	-----	2
D	-----	11

5.

(DC 18V)
(173[W] * 37[H] * 95[D] mm).

FRONT PANEL CONTROLS ()



1.LCD

16*2 High definition LCD which displays all of information when setting up operating of equipment.

2."Chime-A"/"Left" (MOVE) Button

Chime "A" out button in normal, move button in program mode to the left.

3."Chime-B"/"Right" Button

"Chime-B" output button in normal, move button in program mode to the right.

4."Chime-C"/"Up" Button

Chime-C output button in normal, chime up and setup mode in program mode.

5."Chime-D"/"Down" Button

Chime-D output button in normal, down button in program mode.

6."PGM(Program)" Button

For the "PGM" mode, push "PGM" button for 3seconds and it displays or mode change.

7."Enter" Button

This is "ENTER" button to change setting model or input memory.

8."Escape" Button

This is escape button to cancell setting mode.

*Pushing the "ESCAPE" button for 3seconds, it will be back to general mode <Clock & calendar>

1.LCD

16*2 LCD

2." -A"/" ()"

-A 가 .

3." -B"/" ()"

-B 가 .

4." -C"/" 가"

-C 가

5." -D"/" "

-D

6." "

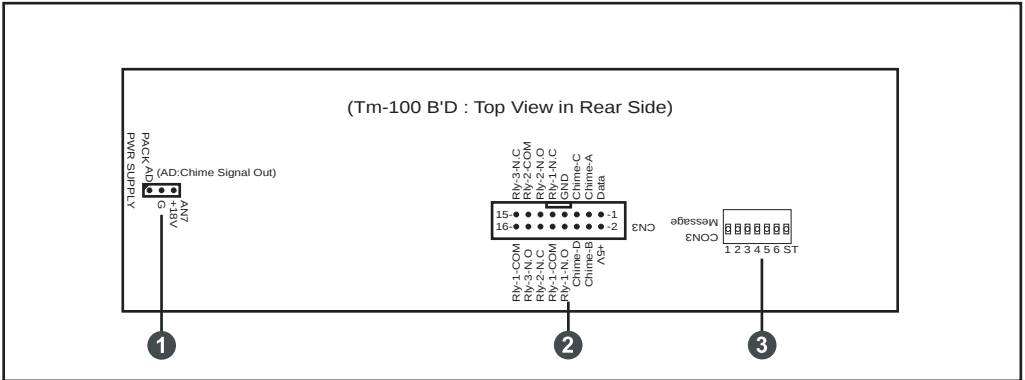
3 가

7." ()"

()

8." ()"

*. ()



1.DC POWER INPUT AND CHIME OUTPUT

DC+18V, make sure polarity not to change.

1.

+18V,

2.EXTENTION B'D CONNECTOR

2.

1) When connecting DCF77 to connector of extention B'D connector, clock will be operated into Europe standard clock, if there is time difference between time of clock built in and europe standard time.

1).

(+5V,)

DCF77

(Note : if no connection of DCF77 receiver, or data received is incollect, it will be dispalyed "NO SIGNAL" on the LCD and time sill be operated in self clock built in only.)

(: DCF77 가
"No.Signal" 가

LCD

2). It will be operated together with chime button when connecting relay or external switch and terminal chime A.B.C.D of extension board.

2).

-A,B,C,D

3.DIGITAL MESSAGE OUTPUT TERMINAL

3.

Output terminal of digital message, this is connector of digital message module DM-100.

DM-xxx ()

DM-100/ digital message will be operated by chime button and memory stored.

DM-xxx

1. GENERAL USE

1. Power off all of equipments before connection
2. External input terminal connect on Extension terminal board after connect TM-100 and DM-100.
3. Connect power cable after check polarity of power cable.
4. Power on

1.

1.

2. TM-100

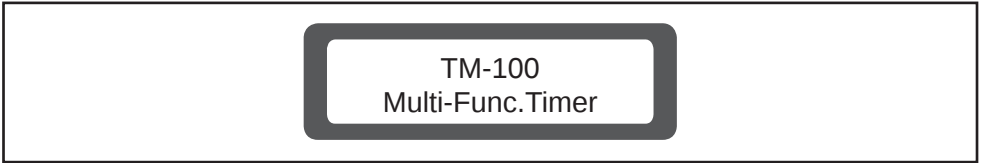
DM-100

3.

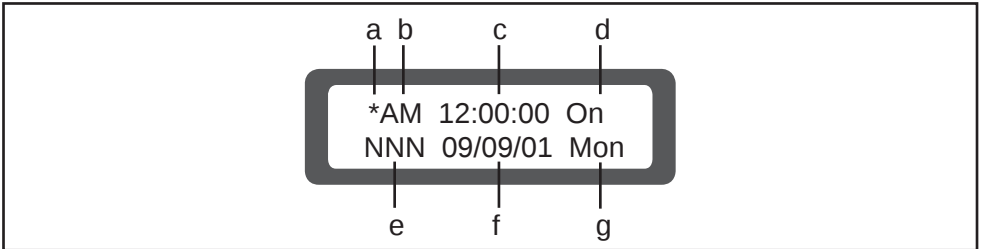
4. 가

2. DISPLAY WHEN POWER ON (가)

It displays time and calendar as below picture after displays right picture when supplied power.
가



3. LCD DISPLAY WINDOW (LCD)



a. It displays "*" on the screen when connecting DCF-77.

b. It displays AM/PM in normal.

ab. It displays number of relay operated.

c. It displays hours, minutes, seconds in normal mode and it displays per menu in program mode.

d. It displays schedule details by memory stored.

e. It displays remaining time when relay on.

f. It displays year / month / day in normal mode mode and displays per menu in program mode.

(Warning : If no connection of DCF77 receiver or data receiverd is incorrect, it will be displayed "No Signal" on the LCD.)

g. It displays a day of the week in normal mode and displays per menu in PGM mode.

a. DCF77

"*" 가

b.

/

ab.

c.

: : ,

d.

"ON"

, "OFF"

e.

f.

/ / ,

(DCF77

" " "

.)

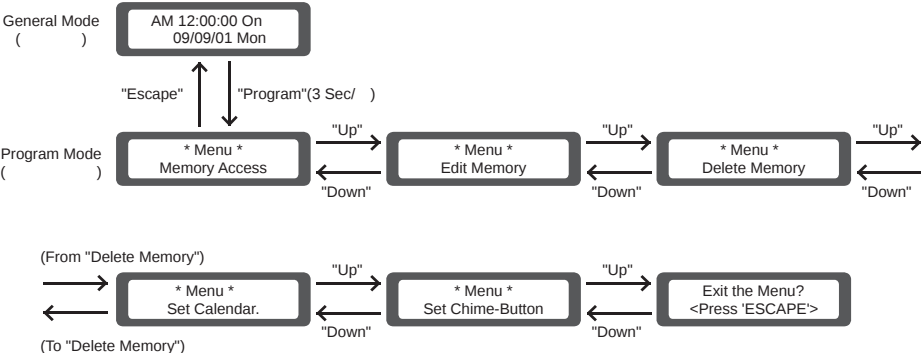
가

g.

2.

- " " " "
 () LCD
 80 가 () (M01-M80)
 / / 1
 00

- 1). " " 3
- 2). " " " "
- 3). " " . ()
- 4). " " "Exit" " "
- 5). " " "Exit" " "



3. MEMOERY ACCESS.

3.

- Memory access will be active according to selected time of memory number when access "ON" (On)

SET AND STORE

- 1). Adjust by memory access menu on the up/down button

* Menu *
Memory Access

1). "Up"/"Down" (/)

- 2). Push enter button to save current situation

Mem. Acc.= Off
<Press 'ENTER'>

2). "ENTER" ()

- 3). Set up on/off by up/down button

Mem. Acc. = On
<Press 'ENTER'>

3). "Up"/"Down" (/) On/Off (/)

- 4). When pushing ENTER button, it will be displays "storing data".

Mem. Acc. = On
<Storing Data.>

4). "ENTER" ()

- 5). It dispalys "Stored data" after finish stored data.

Mem. Acc. =On
<Stored Data.>

5).

4. Memory editing and store.

4. ()

- When meomry "access" on, after setting up and stored memory, it will be active stored memory number in turn.
- It is not to be memorized, it displays "-" and (AM12:00)
- It is to be memorized, it displays number or letters and "no memory" displays "-".
- The following is processing details of memorized contents.
 - In case of relay delay operating : (Dly:On) (Dly=Delay) chime -> digital message -> relay.
 - In case of relay operating at same time (Dly:Off) chime/relay operating output -> digital message output after chime active.
- A number of memory is 80EA <M-01-M80>

(On)

가 가

가 "() (AM 12:00)

가 "-"()

(Dly:On) (Dly=Delay)

-> (Dly:Off)

/ ->

80 (M01~M80)

: AM 12:00 ~ PM 11:59 (1).

(1= , 2= , 3= , 4= , 5= , 6= , 7=).

: A,B,C,D 1

: 1,2,3,4,5,6 1

: 1,2,3

: () (Dly=Delay:On)

() (Dly=Delay:Off)

(H.T=Hold Time) : 1 ~ 999

- The following is details for the each memory setup
 - operating time : AM12:00~PM11:59 <per minute>
 - operating day of work : sunday~saturday
- (1=sunday,2=monday,3=tuesday,4=wendnesday, 5=thursday,6=friday,7=saturday)
- chime number : one or non selectable among A.B.C.D.
- number of digital message
 - one or non selectable message number 1.2.3.4.5.6
- relay number : selected number or non selectable
- status of relay operating : operating same time
 - <Dly=Delay:on> in case of chime output or relay operating .
 - <Dly=Delay:off> after digital message output
- relay operating time <H.T=HoldTime>:1~999 seconds

EXAMPLE LCD DISPLAY

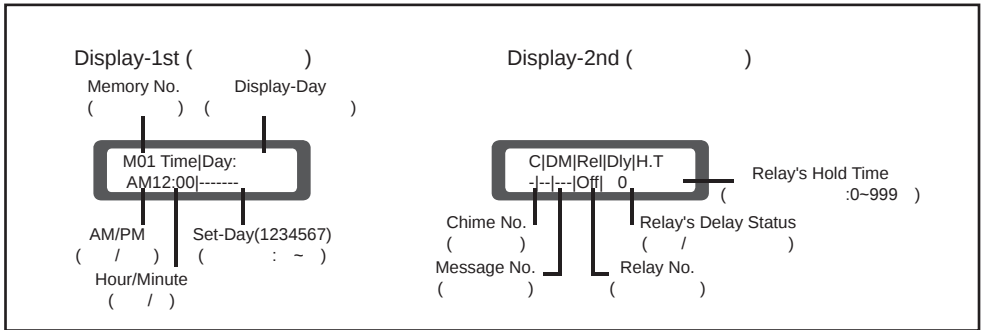
- It consists of two displays in memory.
- It turn on light of square type cursor when pushing Left/Right button.
- Select to push up/down button.
- Push "ENTER" button after memory selected.
- Push "ESCAPE" to return previous menu.

LCD

- "Left"/"Right"(/) 가
- "Up"/"Down"(/)
- "Enter"()
- "Escape"()

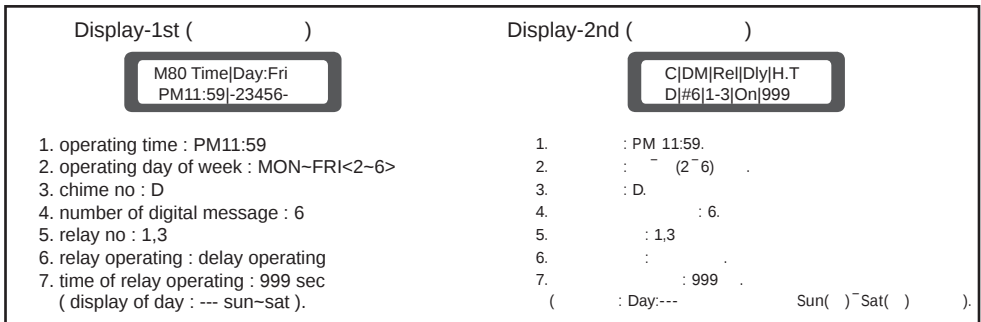
ex1 : no content for memory 01.

1 : 01



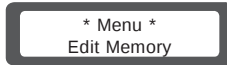
ex2 : Settle memory 80 as follow

2 : 80



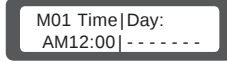
4. EDIT MEMORY (Continue).

- 1). Memorized programming can be changed by "up/down" button



4. () ().

- 2). Pushing "ENTER" button, it displays previous memory number selected and turn on the light on the same position.



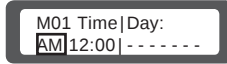
- 1). "Up"/"Down"(/)

- 3). To memorize numbers, use up/down button after movement of cursor to the time.



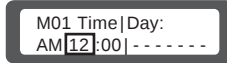
- 2). "Enter"()
가
3). "Left"/"Right"(/)
,"Up"/"Down"(/)
(: M01~M80).

- 4). AM/PM change by up/down button after movement of cursor to the left/right button.



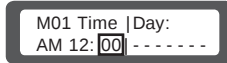
- 4). "Left"/"Right"(/)
,"Up"/"Down"(/)
AM/PM(/)

- 5). Time setting by up/down button after movement of cursor for left/right.



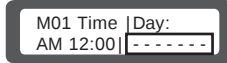
- 5). "Left"/"Right"(/)
,"Up"/"Down"(/)
(01 ~ 12).

- 6). Minute setting cursor for left/right
Minute setting < 00~59 minutes >



- 6). "Left"/"Right"(/)
,"Up"/"Down"(/)
(00 ~ 59).

- 7). Set day of week by up/down button after movement of cursor to the L.R button.



- 7). "Left"/"Right"(/)
,"Up"/"Down"

(it displays a day of week by number, ex) 1=sun, 2=mon, 3=tue, 4=wed, 5=thu, 6=fri, 7=sat)

(Day :) 1=Sun: , 2=Mon: , 3=Tue: , 4=Wed: , 5=Thu: , 6=Fri: , 7=Sat:).

- 8). Chime setting by up/down button after movement of cursor to the chime menu by L.R button (non selectable or select one among A.B.C.D)



- 8). "Left"/"Right"(/)
,"Up"/"Down"(/)
(A,B,C,D 1).

- 9). chime setting by up/down button after movement of cursor to the digital message location by L.R button (non selectable or select one among #1~#6)



- 9). "Left"/"Right"(/)
,"Up"/"Down"(/)
(#1~#6 1).

- 10). Relay number setting by up/down button after movement of cursor by L.R button to the relay location (non selectable or select among 1.2.3)



- 10). "Left"/"Right"(/)
,"Up"/"Down"(/)
(1,2,3).

- 11). Set on/off by up/down button after movement of cursor to the delay operating of the relay.



- 11). "Left"/"Right"(/)
,"Up"/"Down"(/)
On/Off(/)

4. EDIT MEMORY (Continue).

4. () ().

- 12). Set operating time by up/down button after movement of cursor to operating time of the relay by L.R button (operating time max 999 seconds).

C|DM|Rel|Dly|H.T
-|---|Off|999

-. pushing the "Right" button in the menu of the relay operating time, it will be displayed previous page

- 13). When pushing "ENTER" button at the first page and second page, data will be stored and will.

M|01|Time|Day:
<Storing Data.>

When finishing saved completed, it will be displayed.

- 14). It will be repeated by number of memory

C|DM|Rel|Dly|H.T
<Stored Data.>

- 15). Push "ESCAPE" button to return previous menu.

12). "Left"/"Right"(/)
"Up"/"Down"(/)

(999).
"Right"()

13). "ENTER"()
가

14). 1). - 13).

15). "Escape"()

5. DELETE MEMORY.

5.

*. To cancel all memory, set "ALL"

*.
-. All()

- 1). set "delete" menu by up/down button

* Menu *
Delete Memory

- 2). push up/down to memorize number (All, #01 ~ #80)

Mem.|All|Delete?
<Press 'ENTER'>

- 3). pushing "ENTER" button, it means "processing of Delete"

Mem. All Delete?
<Deleting Data>

- 4). It displays non data after completed delete

Mem. All Delete?
<Non Data>

- 5). it repeats times necessary of number 2 ~ 4

- 6). push "ESCAPE" button to cancel

1). "Up"/"Down"(/)

2). "Up"/"Down"(/) All()
(All, #01 ~ #80)

3). "Enter"()

4). 가

5). 2), - 4).

6). "Escape"()

6. SET CALENDAR .

6. ()

- Go to the menu "set calendar"

- 1). set calendar in PGM mode by up/down button

* Menu *
Set Calendar.

- 2). push "ENTER" button to see information of current time

Calendar|Day: Mon
09/09/01|AM12:00

- 3). set weekdays by up/down button after movement of cursor to week days by L.R button < sun~sat >

Calendar|Day: Mon
09/09/01|AM12:00

1). "Up"/"Down"(/)

2). "Enter"()

3). "Left"/"Right"(/)
"Up"/"Down"(/)
(Sun ~ Sat : -).

- 4). set year by up/down button after movement of cursor to the year menu by L.R button <year 00 ~ year 99 >

Calendar|Day:Mon
09/09/01|AM12:00

- 4). "Left"/"Right"(/)
,"Up"/"Down"(/)
(00 ~ 99).

- 5). set month by up/down button after movement of cursor to the month

Calendar|Day:Mon
09/09/01|AM12:00

- 5). "Left"/"Right"(/)
,"Up"/"Down"(/)
(01 ~ 12).

- 6). set day by up/down button after movement of cursor to the day

Calendar|Day:Mon
09/09/01|AM12:00

- 6). "Left"/"Right"(/)
,"Up"/"Down"(/)
(01 ~ 31).

- 7). set AM/PM by up/down button after movement of AM/PM menu by L.R button

Calendar|Day:Mon
09/09/01|AM12:00

- 7). "Left"/"Right"(/)
,"Up"/"Down"(/)
M(/) AM/P

- 8). set time by up/down button after movement of time menu by L.R. button <from 01hr~12hr >

Calendar|Day:Mon
09/09/01|AM12:00

- 8). "Left"/"Right"(/)
,"Up"/"Down"(/)
(01 ~ 12).

- 9). set minute by up/down button after movement of minute menu by L.R button <from 00~ 59 minutes >

Calendar|Day:Mon
<Storing Data.>

- 9). "Left"/"Right"(/)
,"Up"/"Down"(/)
(00 ~ 59).

- 10). pushing "ENTER" button, it displays processing store for time information

Calendar|Day:Mon
<Stored Data.>

- 10). "Enter"()

- 11). pushing "ESCAPE" button to return previous menu

- 11). "Escape"()

7. SET CHIME BUTTON.

7.

- 1). set chime via memory editing menu by up/down key in the PGM mode

* Menu *
Set Chime-Button

- 1). "Up"/"Down"(/)

- 2). pushing the "ENTER" button, it displays previous menu and turn on the light

C|DM|Rel|Dly|H.T
A---|---|Off| 0

- 2). "Enter"()

- 3). select chime number by up/down button after movement of chime number menu by L.R button (select one among A.B.C.D)

C|DM|Rel|Dly|H.T
A---|---|Off| 0

- 3). "Left"/"Right"(/)
,"Up"/"Down"(/)
(A,B,C,D 1).

- 4). set message number by up/down button after movement of cursor to digital message menu by L.R button (#1~#6 or non selectable)

C|DM|Rel|Dly|H.T
1---|---|Off| 0

- 4). "Left"/"Right"(/)
,"Up"/"Down"(/)
(#1~#6)

- 5). select relay number by up/down menu after movement of relay menu by L.R button (select one among 1.2.3 or non selectable)

C|DM|Rel|Dly|H.T
1---|---|Off| 0

- 5). "Left"/"Right"(/)
,"Up"/"Down"(/)
(1,2,3).

- 6). set on/off button by up/down button after movement of cursor to the delay operating of the relay menu by L.R button

C|DM|Rel|Dly|H.T
1---|---|Off| 0

- 6). "Left"/"Right"(/)
,"Up"/"Down"(/)
On/Off(/)

OPERATING METHOD ()

7). set operating time by up/down button after movement of cursor to the operating time of the relay menu (operating time 999 seconds)

C|DM|Rel|Dly|H.T
-|---|Off|999

7). "Left"/"Right"(/)
,"Up"/"Down"(/)
(999).

8). pushing "ENTER" button, it displays processing of store.

C|DM|Rel|Dly|H.T
<Storing Data.>

8). "Enter"()

9). it repeats 3 ~ 8 about each chime

C|DM|Rel|Dly|H.T
<Stored Data.>

9). 3). ~ 8).

10). push "ESCAPE" button to return to previous menu

10). "Escape"()

8. EXIT THE MENU.

8.

- following menu is to return to normal mode after PGM finished completely
- it can be returned to normal mode from each menu

1). set "ESCAPE" menu by up/down menu in PGM mode

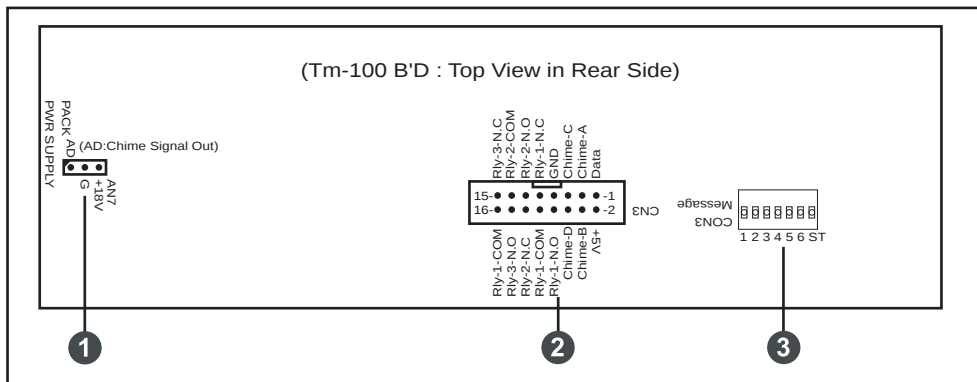
Exit the Menu?
<Press 'ESCAPE'>

1). "Up"/"Down"(/)

2). pushing "ESCAPE", it will be back to normal mode

AM 08:00:00 On
09/09/01 Mon

2). "Escape"()



1. DC POWER INPUT AND CHIME OUTPUT

- Connect +18V DC, earthing connector and chime output connector so as not to change the polarity

1.

+18V,

2. EXTENSION B'D CONNECTOR

- 1). the date and time are automatically set by the radio clock receiver <DCF-77>, if it is not the case due to interference with reception, the date and time can also be set manually. if the reception is clear again, the radio module will automatically update the date and the time, the clock is battery buffered and continuous even if the power supply is interrupted.

(Note : no connection of DCF77/clock receiver or interference with reception. it displays "no signal" on the LCD repeatedly and time on date are operated by internal clock.)

2.

- 1). +5V, DCF77 ()

(: DCF77 가 LCD
"No:Signal" 가
.)

- 2). When connecting extension chime B.D-A.B.C.D. and earthing connector to external switch or relay, it will be active same like that of chime.

- 2). -A,B,C,D

3. DIGITAL MESSAGE OUTPUT TERMINAL

- This is connector to DM-100 when connecting DM-100 with each number, it will be active with chime button and memory stored.

3.

- DM-100 ()
- DM-xxx

MECHENICAL

INPUT & OUTPUT CHANNEL()

MEMORY()----- MAX. 80

MEMORY SECTION()----- MIN. 1 MINUTE ~ MAX 1 WEEK

DIGITAL MESSAGE(CONNECTING DM-100)----- 6 CH.
(DM-xxx)

RELAY()----- 3 CH.

CHIME BUTTON()----- 4 BUTTON.

EXTERNAL CHIME INPUT()----- 4 CH.

INTERNAL CHIME()

CHIME A----- 4 TONE

CHIME B----- 3 TONE

CHIME C----- 2 TONE

CHIME D----- EURO SIREN

INTERNAL CHIME RUN TIME()

CHIME A----- 5 SEC

CHIME B----- 4 SEC

CHIME C----- 2 SEC

CHIME D----- 1 SEC

GENERAL

POWER CONSUMPTION() ----- 1 SEC

POWER SOURCE() ----- DC 18V

DIMENSIONS()----- 172(W)x37(H)x95(D)mm

WEIGHT()-----1Kg

Specifications and design subject to change without notice for improvements.



www.jd-media.co.kr

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