## DIN W72×H72mm, Weekly Timer

## **■**Features

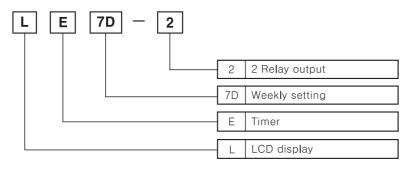
- Easy to check and change the program setting.
- •Individual programming of each day or each week
- •2 Independent control output. (Relay)
- •Hardware included for both panel and DIN rail mounting
- •When mounting base plate, DIN rail mounting is available







## Ordering information



## Specifications

Model		LE7D-2
Power supply		100-240VAC 50/60Hz
Allowable voltage range		90 ~ 110% of rated voltage
Power consumption		Approx. 3VA(240VAC 60Hz)
RETURN input		Short-circuit or open by switch or relay
Timing program		Programmable 24 Step
Operation mode		ON/OFF mode, Cycle mode, Pulse mode
Operation cycle		1 week(7days)
Mounting		Front panel, Surface, DIN rail
Time deviation		$\pm 15 \text{sec/month}(25 ^{\circ}\text{C}) \ (\pm 4 \text{sec/week})$
Memory protection		10years with power applied, 5years without power
Control Output	Contact type	Time limit DPDT(2c)
	Contact capacity	250VAC 5A resistive load
	Output number	Independent 2 output (1c $\times$ 2)
Relay life cycle	Mechanical	Min.10,000,000 times
	Electrical	Min. 100,000 times (250VAC 5A resistive load)
Insulation resistance		Min. 100MΩ (at 500VDC)
Dielectric strength		2000VAC 50/60Hz for 1minute
Noise strength		$\pm 2 \mathrm{kV}$ the square wave noise(pulse width:1 $\mu$ s) by the noise simulator
Ambient temperature		-10 ~ 55 ℃ (at non-freezing status)
Storage temperature		-25 ~ 65℃ (at non-freezing status)
Ambient humidity		35 ~ 85%RH
Approval		c <b>FL</b> us
Unit weight		Approx. 250g

(A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

(H) Sensor controller

(I) Switching power supply

(J) Proximity sensor

(K) Photo electric sensor

(L) Pressure sensor

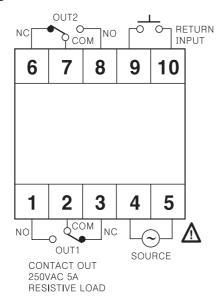
(M) Rotary encoder

(N) Stepping motor & Driver & Controller

(O) Graphic panel

(P) Production stoppage models & replacement

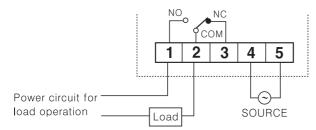
## Connections



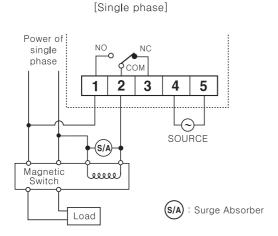
## **■** Connection with load

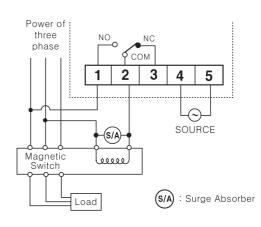
When controlling a non-resistive load (Ex: Magnetic switch etc), please connect to the both ends of surge absorber (R+C).

•In case of controlling the load directly



•In case of controlling the load by using a contactor

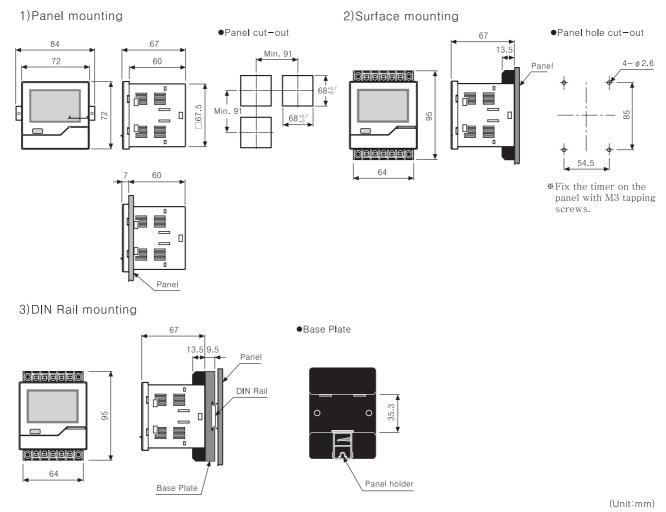




[Three phase]

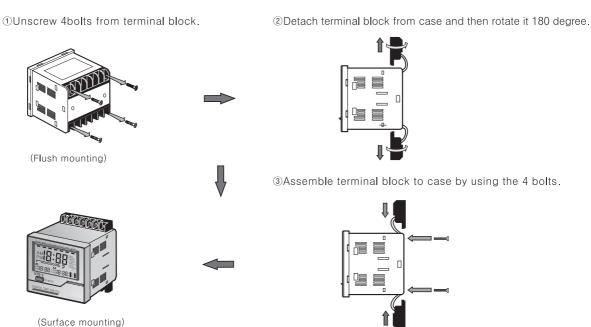
B-55 Autonics

## **■** Dimension & Mounting



## ■How to switch from the flush mounting to surface mounting type

Remove terminals from the body after unscrewing terminal screws, and then assemble terminals to the body after rotating terminals as below figure.



(A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

(H) Sensor controller

(I) Switching power supply

(J) Proximity sensor

(K) Photo electric sensor

(L) Pressure sensor

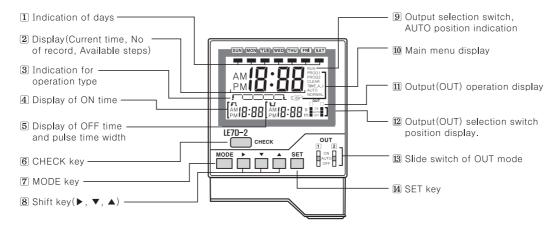
(M) Rotary encoder

(N) Stepping motor & Driver & Controller

(O) Graphic panel

(P) Production stoppage models & replacement

## ■ Front Panel identification



## Front panel

1 Indication of week day(s)

- · Light ON: Status of the day has been set.
- · Light OFF: Status of the day has not been set.
- When the flash is on the day has been set:
  Repeatedly flashes by turn(0.25sec)
- When the flash is on the day has not been set:
  Repeatedly flashes by turn(0.5sec)
- ☞Refer to B-58page for "Setting days"

2Display(Current time, No of record, Available steps)

- RUN mode : Display the current time
- Program modify and check mode:
   Display the record No. of program that has been set.
- Program setting mode:

Display available steps remaining, Total steps:24 steps

#### 3 Indication of operation type

Display the type of operation which have been set at "PROG1" and "PROG2".

ON/OFF operation

Cycle operation

Pulse operation

#### 4Display of ON time

Display ON time that has been set in "PROG1" and "PROG2".

### 5Display of OFF time and pulse time width

Display ON time that has been set in "PROG1" and "PROG2".

- •It displays OFF time during ON/OFF operation and Cycle operation.
- $\bullet \mbox{It}$  displays the width of pulse time during Pulse operation.

#### **6**CHECK Key

This key can be used to set, modify program or change day. 7MODE Key

This key can be used to set, modify, remove program and set current time, select AUTO or NORMAL mode.

## (8)Shift key(▶, ▼, ▲)

This key can be used to set, modify program or change day.

# **9**Output selection switch, AUTO position indication Display status of OUT selection switches.

- •RUN Indicator ON: The OUT selection switches are both set on AUTO position.
- •RUN indicator OFF: One of OUT selection switches is set on ON or OFF position.

Note) RUN indicator is shown during RUN mode.

#### 10 Display of main menu

•"PROG1"

PROGRAM1 operation (Light ON), modification and setting of PROGRAM1, Check PROGRAM1 (Flash).

•"PROG2"

PROGRAM2 operation (Light ON), modification and setting of PROGRAM2, Check PROGRAM2 (Flash)

- \*\*If PROG1" and "PROG2" are operationg at the same time, "PROG1" will be illuminated.
- ●"PROG1" and "CLEAR"

This mode is to delete the content of "PROG1".

- \*When it is flashing, it will be deleted by pressing SET key for 3sec.
- •Select memory protection.
  - \* AUTO

After power failure, Operation continues according to program setting.

**\*NORMAL** 

When it turns on after power failure("" Mark flashes) apply Return input signal(Terminal (9, (10)) ("" mark turn off), and then the output operates as set program. "" mark applies for "NORMAL" mode only and indicates when it turns on after power failure.

#### IIDisplay of OUTPUT(OUT) operation

Display operation of OUT1 and OUT2.

●No output : Blank

●Output:OUT1:Display **1** 

OUT2: Display 2

## 12 Display of selection switch position

Display position of Output (OUT) selection switches.

## 13 Selection switch of OUTPUT(OUT)

This switch is used to select between operating the output (OUT1, 2) according to the program or manually.

•ON

Output always ON not related to program.

•OFF

Output always OFF not related to program.

•AUTO

Output operates according to program.

OUT1 and OUT2 are selected independently.□

## **14**SET key

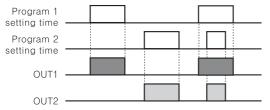
Using when set the programed, corrected or changed data.

B-57 Autonics

## ■ Function

#### **OPrograms**

There are PROG1 and PROG2 in this unit and 2 outputs. These programs work independently then drive OUT1 and OUT2. (PROG1: OUT1, PROG2: OUT2)



#### OSetting days

**OCursor** operation when setting the day

When entering into the mode in order to set the day, Sunday will flash first. After moving th day cursor by pressing ▶ key, select the day by pressing ▶, ♠ key.

Ex) When intending to set Monday, Tuesday, Wednesday Sun Mon Tuerwed thu FRI SAT



Move the cursor to Monday from Sunday by pressing ▶.



It will be selected as shown in LCD by pressing ♠, ♥ key.
(Monday, Tuesday, Wednesday are steady on and Thursday will flash.)



The day selection is completed by pressing SET key.

- \*The flashing day cursor is not selected one.
- ②Cursor operation when changing the day
  Move the flashing cursor to target day by ▶ key,
  then turn off the cursor by ▼, ♠ key to complete
  the day change.

Ex) When need to change Monday, Tuesday, Wednesday to Monday, Wednesday.



When entering into the mode in order to set the day, Sunday will flash first. (It will flash by turning on 0.25sec. cycle)

Move the flashing cursor to Tuesday by ▶ key.



Turn off the light on Tuesday cursor and change the flashing cursor to Wednesday by (a), (b) key. (It will flash by turning on 0. 25sec. cycle)



Press SET key to complete setting.

- \*If move the cursor with wrong key operation, the previous setting day cursor will be turned off and target setting day cursor will be turned on.
- \*If the flashing cursor is located on a previously set day, it will flash by turning on 0.25sec. and it will flash by turning on 0.5sec. cycle when the cursor is located on the non setting day.

#### **OSTEP**

•It is available to program 24 STEPS.

This is total number of PROG1 and PROG2.

Also when entering into program setting mode, available STEPS will be displayed.

- •Required number of STEP for 1 time setting by each operation form.
- \*ON/OFF operation: Total 2 Steps

ON day, ON time
1 Step
OFF day, OFF time
1 Step

\*CYCLE operation: Total 4 Steps

\*PULSE operation: Total 1 STEP

ON day, ON time, ON time width
1 Step

#### Operation

①ON/OFF operation

Output will be ON at ON time that has been set in Program and output will be OFF at OFF time that has been set in Program.

- -You can set ON day and OFF day differently.
- -Min. time setting unit: 1 minute

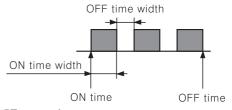


ON setting time OFF setting time

## **2CYCLE** operation

Output will be ON for ON time width and OFF for OFF time width for ON time and OFF time that have been set in Program.

-Min. time width of ON or OFF setting unit:1 minute



③PULSE operation

Output will be ON for programmed time at ON time that has been set in Program then OFF.

-Output ON pulse time width: 1sec. ~ 59min.



### OTime indication

PM 12:00 will be displayed PM0:00. Ex)PM 12:20 will be displayed PM 0:20. (A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

(H) Sensor controller

(I) Switching power supply

(J) Proximity sensor

(K) Photo electric sensor

(L) Pressure sensor

(M) Rotary encoder

(N) Stepping motor & Driver &

(O) Graphic panel

(P) Production stoppage models & replacement

## **■**Function

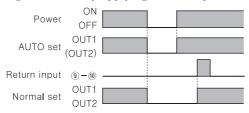
### 

•In case of setting AUTO

When power on again after power off, the output (OUT1, OUT2) operates according to program status. When selecting "AUTO", the power will be supplied after power failure automatically. Therefore it might cause accident. Please select NORMAL instead of "AUTO" if the possibility of an accident exists.

•In case of setting Normal

When power on again after power off, the output (OUT1, OUT2) operates when the signal is applied at external return input terminal. When power on again after power off, "" mark in display window appears and flashes. The output operates according to program status by applying Return input.



## OHow to apply Return input

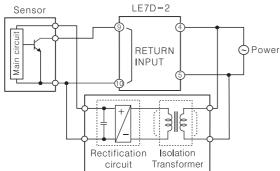
Contact signal input

Please select reliable contact if using a switch or Relay

•Solid state signal input

When using solid state input, please use isolation transformer with a separated primary and secondary. If cannot use isolated transformer, please use photocoupler to separat the input device.

Also be sure to check polarity when using solid state element.



< External power supply for sensor >

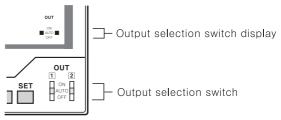
### **©RECORD**

①This is basic unit of Program to control output. When checking Program, "r01 ~ r24" as RECORD will be displayed in LCD.

②Setable number of Step in 1 RECORD

- ●ON/OFF operation: 2 Steps per 1 RECORD (ON day, ON time, OFF day, OFF time setting will be 1 RECORD)
- ●CYCLE operation: 4 Steps per 1 RECORD (ON day, ON time, OFF day, OFF time, ON time width, OFF time width setting will be 1 RECORD)
- PULSE operation: 1 Step per 1 RECORD.
   (ON day, ON time, Output operation time width setting will be 1 RECORD)

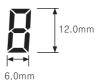
## OManual output ON/OFF operation



- •Output selection switch AUTO position Output operation as programmed.
- •Output selection switch ON position Output is ON not related to program.
- •Output selection switch OFF position Output is OFF not related to program.
- \*\*Output selection switch position is displayed in LCD always.

## ODisplay in LCD

①The size of Display (Time display)



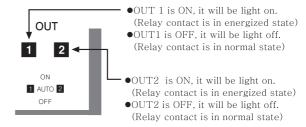
2 Operation type display

•ON/OFF operation display:

●CYCLE operation display:

●PULSE operation display: **\_\_\_\_**\_

3 Output operation display



#### @Time/Time width display

●ON time display: **f** 

●OFF time display: 1

•ON operation time width display: **T**L

●OFF operation time width display: 🧘 [

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## 

When the current day and time is in pause status, it flashes the next operation time.

(Look-ahead operation)

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## ■The current time setting

When supplying the power for the first time, the display will appear as shown.

Then please set the current time.

Ex)When setting the current time as AM 9:00 Monday



Pressing MODE key for more than 1sec., "PROG1" will be flashing and the total number of Steps will be displayed

SUN MON TUE WED THU FRI SAT



Then press MODE key 4 times, "TIME.AJ" will be flashing.

SUN MON TUE WED THU FRI SAT



Press SET key.

The time will be displayed as shown and the cursor will flash on Sunday.

SUN MON TUETWED THU ERL SAT



After moving the day cursor to Monday by pressing ▶ key press the ▼, ▲ key to select Monday. It will change from flashing to steady. "AM" is now flashing.

MODE

MODE

MODE

Setting mode of

current time

Setting mode of

operation after power

failure " flashes

"TIME. AJ" flashes)

LEVEL1

LEVEL1

SUN MON TUE WED THU FRI SAT



Press ▶ key.

Then "AM" is steady on and "Hour" position is flickering.

If the setting time is PM, change AM to PM by pressing ▼, ▲ key then press b key.

SUN MON TUE WED THU FRI SAT



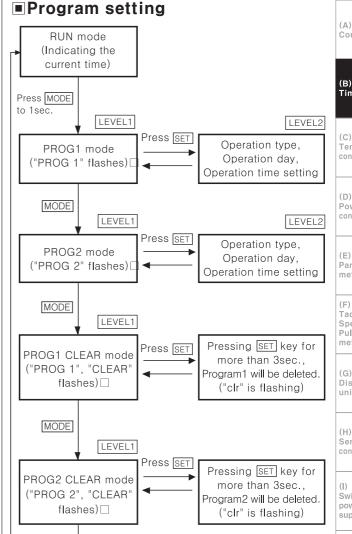
After changing to 9 o'clock with ▲ key then "9" will be steady on by pressing ▶ key and "Minute" position is flashing.

After changing to "00" minute by pressing A key then press SET key to complete the current time settina.

SUN MON TUE WED THU FRI SAT



Pressing MODE key 2 times, it will return to RUN mode then display the current time.



•If no key is touched for 30sec. at LEVEL1, it will be returned to operating mode automatically.

Press SET

Press SET

•If no key is touched for 30sec. at LEVEL2, it will be returned to LEVEL1 automatically.

•If MODE key is pushed at LEVEL2, modified program is cancelled and returned to automatically.

Counter

(B) Timer

Temp.

(D) Power controller

Panel meter

Tacho/ Speed/ Pulse meter

Display unit

(H) Sensor controller

(I) Switching power supply

Proximity sensor

LEVEL2

LEVEL2

Set current week day

& Time

"AUTO" or "NORMAL"

is flickering and select

desired function by

▼, A key.

electric sensor

(K)

Photo

Pressure

(IVI) Rotary encoder

(N) motor & Driver & Controller

(0) Graphic nanel

(P) Production stoppage models & replacement

## Program setting

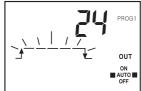
## OSet ON/OFF mode in PROG1

Every week Monday, Tuesday, Wednesday OUT1 is ON at AM 8:30 and OUT1 is OFF at PM 6:00.



#### **1) PROGRAM selection**

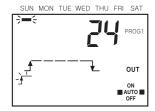
SUN MON TUE WED THU FRI SAT



Press MODE key for more 1sec. then "PROG1" will flash.

Press SET key to turn on "PROG1" then ON/OFF operation is flashing.

#### 2 Select operation mode



ON/OFF operation is being displayed, so press SET key to complete setting of ON/OFF operation.

(The day cursor is flashing on Sunday, " **f** " is flashing indication.)

#### 30N day(s) setting

SUN MON TUE WED THU FRI SAT



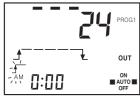
After moving the day cursor to Monday by pressing ▶ key 1time(Moday is flashing) then set ON day by pressing

(Monday, Tuesday, Wednesday curse will be light on, Thursday cursor is flashing) Then press SET key to complete the ON day setting.

(Thursday cursor is light off and "AM" is flashing)

## 4AM/PM setting of ON time

SUN MON TUE WED THU FRI SAT



Because ON time is "AM", press ▶ key to complete AM setting.

(" f", and Hour position are flashing) ※If ON time is "PM", press ▲, ▼ key to select "PM" then ▶ key.

## ⑤ON time "Hour" setting

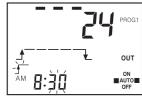
SUN MON TUE WED THU FRI SAT



After setting "8" with 🔺 key, press key to complete ON time "Hour" setting. "AM" and "8" are steady on, T" and "Minute" position are flashing)

## **©ON time "Minute" setting**

SUN MON TUE WED THU FRI SAT

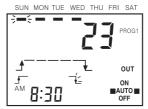


After setting 30minutes by pressing ▲key then press SET key to complete ON time "Minute" setting.

(Sunday cursor is flashing, " 1∟" is flashing indication)

 ₩ON time "Minute" setting will be completed and STEP indication will be decreased by 1.

#### **OFF** day(s) setting



Because ON day and OFF day are the same, therefore press SET key, OFF day setting will be completed. ("AM" and " 1 are flashing while ON time of ON day is displayed at OFF time display)

## ®AM/PM setting of OFF time

SUN MON TUE WED THU FRI SAT



Because OFF time is "PM", after selecting "PM" by ▲ or ▼ key then press key to complete setting. ("L" and "Hour" position are flashing indication)

#### 9"Hour" setting of OFF time

SUN MONTUE WED THU FRI SAT



After changing it to "6" at "Hour" position by ▼ key then press ▶ key to complete OFF time "Hour"setting. ("PM" and "6" : On steady, "  $\cline{1}$  " and "Minute"position: Flashing)

## 10 "Minute" setting of OFF time

SUN MON TUE WED THU FRI SAT

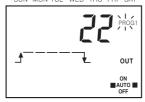


After changing it to "00" minute by ▼key then press SET key to complete OFF time "Minute" setting.

 STEP indication wi**Ⅱ** be decreased by 1 when OFF time "Minute" setting is completed.

## **(11)** Display completion of setting

SUN MON TUE WED THU FRI SAT



After completing the ON/OFF operation setting, PROG1 will be flashing which would allow you to enter another program.

#### <sup>12</sup>RUN mode

SUN MON TUE WED THU FRI SAT



If programming is completed, press the MODE key 6 times to return to the RUN mode

The current day, time and program will be displayed.

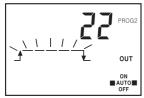
## OSet ON/OFF mode in PROG2

Turn OUT2 on at AM 8:00 every Monday and turn OUT2 off at PM 5:00 Friday.



#### **1)PROGRAM selection**

SUN MON TUE WED THU FRI SAT

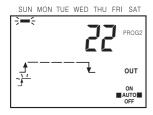


Press MODE key for more than 1sec. PROG1 flashes.

Press MODE key once again. then PROG2 flashes.

Then press SET key, "PROG2" turns on and ON/OFF mode flashes. (Day cursor flashes at SUN[Sunday], and "\_f" mark flashes.)

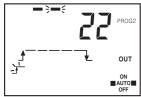
#### ②Select operation mode



Press key to move SUN cursor to WED then press ▼ or ▲ once. (WED turns on THU flashes) Press SET key, then ON weekday is set. (WED cursor turns on steady, "f" flashes.)

#### 3 Select ON weekday

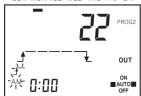
SUN MONTUE WED THU FRI SAT



Press key to move the day cursor to MON and then press ▼or ▲ once. (MON turns on, TUE flashes.) If press SET key, ON weekday is set. (TUE cursor turns off, "1" and "AM"

## 4 Select AM/PM of ON time

SUN MONTUE WED THU FRI SAT

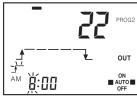


Press ▶ key to set "AM" ON time then AM is set.

(上, Hour digit flashes.) #If ON time is "PM", press ▼ , ▲ key to select "PM" then ▶ key.

#### **5** Select "Hour" of ON time

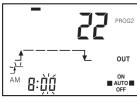
SUN MON TUE WED THU FRI SAT



Press A key to set 8 hour, and then press key, Hour time is set. ("AM" and "8" turn on steady, and minute digits flash.)

## **©**Select "Minute" of ON time

SUN MON TUE WED THU FRI SAT



Set value is "00", so press SET key then Minute is set.

(Day cursor flashes at SUN. " 1\_ " flashes )

indication is reduced by 1.

#### Select OFF weekday

SUN MON TUE WED THU FRI SAT оит Ł 8:00

Press key to move the day cursor to MON then press ▼or key once. MON turns off and TUE flashes. Move the day cursor to FRI by pressing  $\blacktriangleright$  , then press  $\blacktriangledown$  or  $\blacktriangle$  key once. (FRI turns on SAT flashes.) Press SET key, OFF weekday is set.

(SAT cursor turns off and ON time of ON day is displayed in OFF time display "AM" and " 1 are flashing.)

## ®AM/PM setting of OFF time

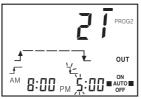
SUN MON TUE WED THU FRI SAT



OFF time is "PM", therefore press ▼ or ▲ key to select "PM". Then press ▶ key to set PM. (" ] and Hour digit flashes.)

#### 9 Select "Hour" of OFF time

SUN MON TUE WED THU FRI SAT



After changing it to 5 at "Hour position by pressing ▼ key, then press ▶ key, Hour time is set. ("PM", Hour digit turn on, 1 and

Minute digit flashes.)

## 

SUN MON TUE WED THU FRI SAT

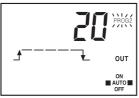


Set value is "00", so press SET key, then Minute is set.

**\*** Minute of OFF time is set and STEP indication is reduced by 1.

#### (1) Display completion of setting

SUN MON TUE WED THU FRI SAT



When ON/OFF setting is complete the display to set next program mode appears.

(A) Counter

(B) Timer

Temp. controller

Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

Display unit

(H) Sensor controller

Switching power supply

Proximity sensor

(K) Photo electric sensor

Pressure sensor

Rotary encoder

(N) Stepping motor & Driver &

Graphic panel

Production stoppage models & replacement

## OSet Cycle mode

From Wednesday AM 8:00 to Thursday PM 5:30, OUT1 turns on for 2 minute and turns off for 3 minute repeatedly.



#### **1)PROGRAM** selection

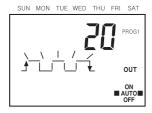
SUN MON TUE WED THU FRI SAT

PROGI
OUT
ON
AUTO
OFF

Press MODE key for more than 1sec. then "PROG1" flashes.

Press SET key to turn on "PROG1". (ON/OFF mode flashes.)

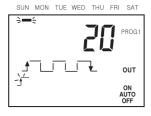
#### ②Select Cycle mode



Press key to select Cycle mode, then Cycle mode flashes.

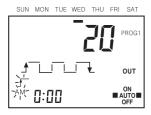
Press SET key. Cycle mode is set (SUN cursor flashes, \_f flashes.)

#### 3 Select ON weekday



Press ▶ key to move SUN cursor to WED then press ▼ or ▲ once. (WED turns on THU flashes.)
Press SET key, then ON weekday is set(WED cursor turns on steady,
"\_F " flashes.)

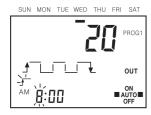
## 4 Select AM/PM of ON time



Press key to set AM of ON time then AM is set.

(" 🖵 ", Hour digit flashes.)

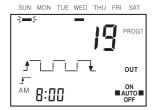
#### **5** Select Hour of ON time



Set 8 hour by pressing A key then Press SET key, then Hour of ON time is set.

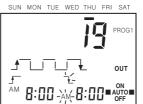
\*\*Hour of ON time is set and STEP indication is reduced by 1.

#### ⑥OFF day setting



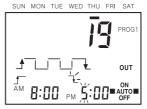
Press ▶ key to move SUN cursor to WED, then press ▲ or ▼ once (WED cursor turns off, THU cursor flash.) press ▲ or ▼ once, then THU cursor turns on, FRI cursor flashes.) Then press SET key, OFF weekday is set. ("AM" flashes while ON time of ON day is displayed at OFF time display.)

#### ③Select AM/PM of OFF time



OFF time is PM, therefore press ▼ or ▲ key to select PM, then press ▶ to set. (" 孔 ", Hour digit flashes.)

#### 8 "Hour" setting of OFF time

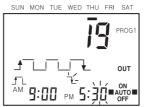


Press ▲ or ▼ key to select 5 then press SET key to set Hour of OFF time

("PM", "5" are on steady and " \( \frac{1}{2} \)"

Minute digit flashes.)

## 9"Minute"setting of OFF time

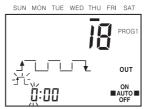


Press A or key to select 30, then press SET key to set Minute of OFF time. (" J L " & Hour digit of ON time width flashes.)

(" J L ", Hour digit of ON time width flashes.)

\*\*Hour of OFF time is set and STEP indication is reduced by 1.

#### 

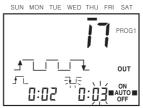


Press key to shift to MInute digit, then press key to select 2 of ON time width.

Press SET key to set time width of ON time. (" 'L" ", Hour digit of OFF time width flashes.)

\*Minute of ON time width is set and STEP indication is reduced by 1.

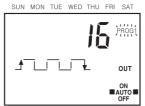
#### 11) Select time width of OFF time



Press to shift to minute digit, then press key to select 3 of OFF time width, then press SET key to set time width of OFF time.

\*Minute of OFF time width is set and STEP indication is reduced by 1.

#### <sup>®</sup>Display completion of setting



When Cycle setting is completed, the display to set next program appears.

### OSet PULSE mode

OUT2 turns on for 10sec. at AM 8:50 in Monday, Tuesday and Wednesday.

SUN MON TUE WED THU FRI SAT

AM8:50 AM8:50 AM8:50

ON for 10 sec

### **1)PROGRAM selection**

SUN MON TUE WED THU FRI SAT

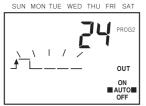
PROG2

OUT

ON

AUTO
OFF

### 2 Select the operation mode

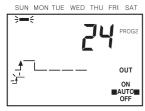


Press key twice to select pulse mode, then pulse mode flashes.

Press SET key to set pulse mode.

(SUN cursor flashes, " \_F " flashes.)

#### 3 Select ON weekday



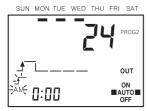
Press ▶ key once to shift SUN cursor to MON, and press ▼ or ▲ key to set ON weekday.

(MON, TUE, Wed cursor turn on steady, THU cursor flashes.)

Press SET key to set ON weekday

(THU cursor turns off, "AM" of ON time flashes.)

### 4 Select AM/PM of ON time



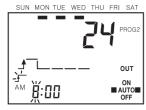
ON time is AM, therefore press key to set AM.

("-**「**", Hour digit flashes.)

If ON time is PM, select PM by 
or ▲ key, then set PM by pressing

key.

## **5**Select Hour of ON time



("AM" & "8" turn on steady, \_**f** & minute digit flash.)

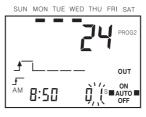
## ⑥Select Minute digit of ON time



Press ▲ or ▼key to set 50minute, then press SET key to set minute of ON time.

( "上 "& "50" turn on steady, "01s" flashes.)

#### Select operation time of output



Select 10sec. by pressing  $\blacktriangle$  key, then press  $\blacksquare$  key to set PROG2.

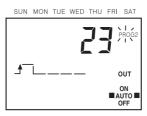
\*\*Output operation time is set and STEP indication is reduced by 1.

Note)Output operation time can be selected from 1sec. to 59min.

If press ▲ key, it can select →1sec → 59sec →1min →59min—time range as follows:

If press ▼ key, it can select ↑ 59min→1min→59sec→1sec time range as follows:

## ®Display completion of setting



If PULSE mode setting is complete, the display to set next program appears.

- \*When returning to RUN mode, if current time is later than programmed time, only current time is displayed and output does not operate that day.
- \*\*Indication of setting time will be appeared at TUE./ & WED AM 0:00 of next operation, and when current time reaches set time, output operates 10sec. Then indication of set time disappears.

(Note) Set program does not cancel.

- \*\*When ON/OFF( ) or cycle mode( ) was selected at PROG1 (or PROG2), pulse mode( ) cannot be added at PROG1 (or PROG2).

(A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

> (G) Display unit

(H) Sensor controller

(I) Switching power supply

(J) Proximity sensor

(K) Photo electric sensor

(L) Pressure sensor

(M) Rotary encoder

(N) Stepping motor & Driver & Controller

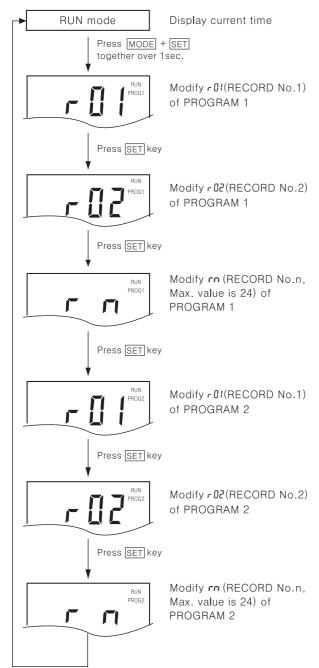
(O) Graphic panel

(P) Production stoppage models & replacement

## ■ How to change program

### OProgram modify

The status of several programs are set, this function is used to modify particular part without erasing program.



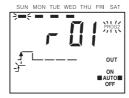
- \*\*To check program of each record, use SET key.

  Press ON/OFF mode for 4 times, press CYCLE mode for 6 times, PULSE mode for 3 times, then display will shift to next RECORD.
- \*\*Change set value each record, then press SET key to set it. If press MODE key instead of SET key, program is not changed.
- \*If no key is touched for 30 sec., the status will be retruned to RUN mode.

## ©Example of program modify

If you want to modify the operation of OUT2 which is ON for 10 sec. every AM 8:50 on Monday, Tuesday, Wednesday to the operation of OUT2 is ON for 3 min. every PM 8:50 on Monday, Tuesday, Wednesday.

①ON day modify

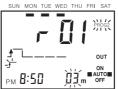


Press MODE + SET key over a second, it will be entered into modification status. Press SET key because there is no change of day.

20N time modify



3PULSE time width modify

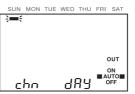


Modify as 3 minute with key. (The time progresses fast when pressing key continuously.) After modification, it is completed pressing FET key, then it will be entered into RUN mode automatically.

## ■ How to modify the day

The program is set to operate from every Monday to Saturday. In order to change as it cannot be operated because from this Friday to next Tuesday is holiday.

①Day change operation



Able to enter the status of day change operation by pressing CHECK key for 3 sec. continuously in RUN mode.

②Changing day selection



Move day cursor to Friday with

▶ key and select Friday,
Saturday, Monday and Tuesday
with ♠ or ▼ key, then the
selection of holiday is completed
when pressing SET key and
selectionof standard day is
displayed.

3 Standard day selection



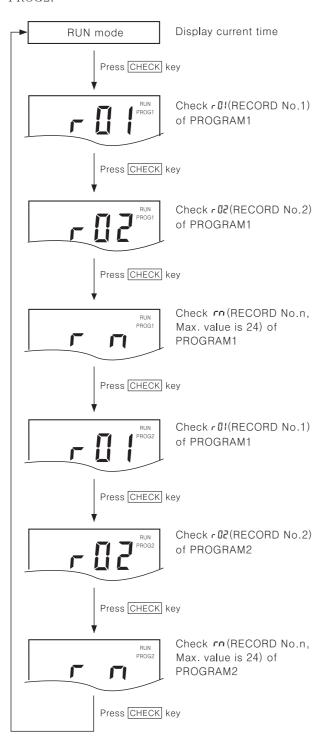
Select Sunday as standard day with a or v key then SET (Setting will be completed and return to RUN mode)

- •Change of weekday applied to next day of the modification.
- •When output of special weekday is completed, it is cancelled automatically, then it returns to the prior program.
- •If you set it as Full for a week, it cannot select standard weekday, therefore it is impossible to change weekday. In this case, please select other method for modification.

B-65 Autonics

## ■Program check

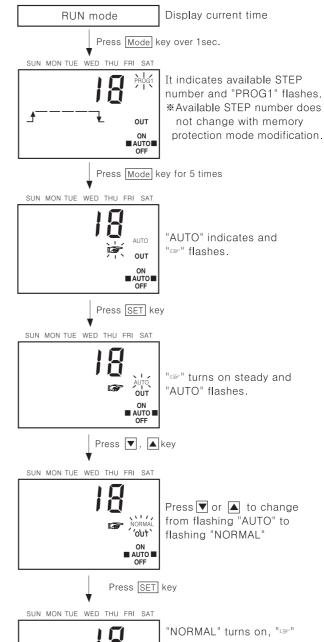
Press CHECK key to check program for PROG1 and PROG2.



\*\*On checking each RECORD, if you press MODE key, or do not touch any key for 30 sec. It will return to RUN mode.

# How to change memory protection mode

Change "AUTO" of memory protection mode to "NORMAL" mode as below.



Press Mode key

flashes. Memory protection mode is changed, then press Mode key to return RUN mode.

TON IIIOGE.

PM PROG1
PM ON TUE WED THU FRI SAT

OUT
ON
AM B:30 PM 6:00 PM

⟨RUN mode⟩

"" appears when power on after power failure.

The output does not operate until apply return input.

(A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

(H) Sensor controller

(I) Switching power supply

(J) Proximity sensor

(K) Photo electric sensor

(L) Pressure sensor

(M) Rotary encoder

(N) Stepping motor & Driver & Controller

(O) Graphic panel

(P) Production stoppage models & replacement