# Autonics Weekly/Yearly Timer LE365S-41

**(€ 6<b>%**) US



Thank you very much for selecting Autonics products.

For your safety, please read the following before using.

#### Caution for your safety

\*Please keep these instructions and review them before using this unit.

\*Please observe the cautions that follow;

⚠ Warning Serious injury may result if instructions are not followed.

⚠ Caution Product may be damaged, or injury may result if instructions are not followed.

\*The following is an explanation of the symbols used in the operation manual. ▲ caution:Injury or danger may occur under special conditions.

#### 

- 1. In case of using this unit with machinery (Nuclear power control, medical equipment vehicle, train, airplane, combustion apparatus, entertainment or safety device etc), it is required to install fail-safe device.
- may cause a fire, human injury or damage to property
- 2. It should be mounted on Panel to use. It may give an electric shock
- 3. Do not connect, inspect and repair when power is ON. t may give an electric shock
- 4. Do not disassemble or modify this unit. Please contact us if it is required. It may give an electric shock and cause a fire.
- 5. Lithium battery is used for memory protection in this product, therefore do not disassemble or burn up. Please contact Autonics to replace battery.
- 6. Safe using for battery

This battery has combustibles including lithium organic solvent, it may cause a fire. exothermicity, leakage and explosion, please keep the following.

①Do not charge, short, disassemble, transform, heating and throw in a fire. @Do not solder on a battery directly.

#### **⚠** Caution

- 1. This unit shall not be used outdoors.
- It might shorten the life cycle of the product or give an electric shock.

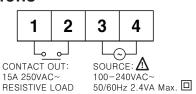
  2. Please use power input terminal wire over AWG NO. 20(0.50mm²), relay output terminal wire over AWG NO. 14(2.50mm²) and tighten terminal screw with 0.74~0.90N · m strength.
- t may cause a malfunction or fire due to contact failure.
- 3. Please observe the rated specifications.
- It might shorten the life cycle of the product and cause a fire. 4. In cleaning the unit, do not use water or an organic solvents.
- It may give an electric shock and fire.
- 5. Do not use this unit at place where there are flammable or explosive gas, humidity, direct ray of the sun, radiant heat, vibration and impact etc. It may cause a fire or explosion
- 6. Do not inflow dust or wire dregs into the unit.

It may cause a fire or malfunction

# Ordering information

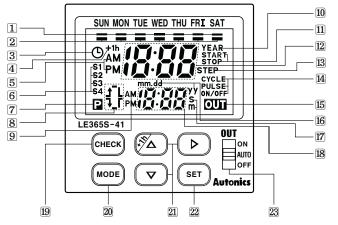


#### Connections



\*The above specifications are subject to change without notice

#### ■ Front panel identification



- 1 Day indicator
- 2 Day display
- •Light: Day is selected.
- ●Light-out: Day is not selected.
- 3 Current time setting mode indicator 4 DST display(Daylight Saving Time)
- 5 AM/PM display(Main display)
- 6 Season display
- 7 Program display
- 8 Display ON time/day, OFF time/day, ON time width, OFF time width
- 9 AM/PM display(Sub-display)
- 10 YEAR display: It is lighted when set, check, modify, delete yearly program, set yearly holidays and operate yearly program.
- 11 Yearly START/STOP day display
- 12 Main display
- 13 Remaining step display
- 14 Operation mode display
- 15 Output mode display
- 16 Year, month, date display
- 17 Unit of pulse duration display
- 18 Sub-display
- 19 CHECK Kev
- 20 MODE Key
- 21 Operation key: Press +1h key over 3sec in RUN mode, DST mode is set

4) How to switch from the flush mounting to surface or DIN rail mounting type

2)Surface mounting

●Panel hole cut-out

Detach the terminal

block after unscrew

terminal screws with

#### 22 SET Key

- 23 Output selection switch
- •AUTO: Control output according to the set program

Dimensions & Mounting

- ●ON: Output is ON. (Operation)
- OFF : Output is OFF

1)Front panel mounting

±1888.

1 bolts

#### Specifications

Source   Section   Secti	Model		LE365S-41
Tontrol Contact type SPST(Single Pole Single Contact)  Contact type SPST(Single Pole Single Contact)  Contact capacity 250VAC 15A resistive load  Number of circuits Independent 1 circuits(1a)  Number of circuits Independent 1 circuits(1a)  Number of steps 48 steps for weekly, 24 steps for yearly  Operation mode ON/OFF mode, Cycle mode, Pulse mode  Nounting Front panel mounting, Surface mounting, DIN rail mounting  ime deviation #15sec/month(Ta:25°C)  emperature error 0.01% ±0.05sec  Nounting	ower supply		100-240VAC 50/60Hz
Contact type Contact type Contact capacity Number of circuits  Lumber of steps  As steps for weekly, 24 steps for yearly Operation mode Mounting  Front panel mounting, Surface mounting, DIN rail mounting ime deviation  emperature error  Assulation resistance  Site of the square wave noise(pulse width:1, ss) by the noise simulator  Relay  As steps for weekly, 24 steps for yearly  ON/OFF mode, Cycle mode, Pulse mode  ### 15sec/month(Ta:25°C)  On 1% ±0.05sec  Over 5 years(25°C)  Over 5 years(25°C)  Site of the square wave noise(pulse width:1, ss) by the noise simulator  ### 2kV the square wave noise(pulse width:1, ss) by the noise simulator  ### 15sec/month(Ta:25°C)  ### 2000VAC 50/60Hz for 1minute    50,000 operations(Switching capacity 30 times/1 minute)  ### 2kV the square wave noise(pulse width:1, ss) by the noise simulator  ### 2kV the square wave noise(pulse width:1, ss) by the noise simulator  ### 2kV the square wave noise(pulse width:1, ss) by the noise simulator  ### 2kV the square wave noise(pulse width:1, ss) by the noise simulator  ### 2kV the square wave noise(pulse width:1, ss) by the noise simulator  ### 2kV the square wave noise(pulse width:1, ss) by the noise simulator  ### 2kV the square wave noise(pulse width:1, ss) by the noise simulator  ### 2kV the square wave noise(pulse width:1, ss) by the noise simulator  ### 2kV the square wave noise(pulse width:1, ss) by the noise simulator  ### 2kV the square wave noise(pulse width:1, ss) by the noise simulator  ### 2kV the square wave noise(pulse width:1, ss) by the noise simulator  ### 2kV the square wave noise(pulse width:1, ss) by the noise simulator  ### 2kV the square wave noise(pulse width:1, ss) by the noise simulator  ### 2kV the square wave noise(pulse width:1, ss) by the noise simulator	Allowable voltage range		90 to 110% of rated voltage
Contact capacity Number of circuits  Number of steps  48 steps for weekly, 24 steps for yearly Operation mode  ON/OFF mode, Cycle mode, Pulse mode Mounting Front panel mounting, Surface mounting, DIN rail mounting ime deviation emperature error  0.01% ±0.05sec  Memory protection Over 5 years (25°C) Suelectric strength Diese strength Diese strength  Electrical  Min. 5,000,000 operations (Switching capacity 30 times/1 minute)  Electrical  Min. 50,000 operations (Switching capacity 20 times/1 minute)  Electrical  Membient temperature  -10 ~ +55°C (at non-freezing status)  Temperature  -25 ~ +65°C (at non-freezing status)	ower consumption		Max. 2.4V
Dutput Contact capacity 250VAC 15A resistive load Independent 1 circuits (1a)  Dumber of circuits Independent 1 circuits (1a)  Dumber of steps 48 steps for weekly, 24 steps for yearly only on the population mode ON/OFF mode, Cycle mode, Pulse mode on the population of the populati	Control	Contact type	SPST(Single Pole Single Contact)
Number of circuits   Independent 1 circuits(1a)	Output		
Operation mode ON/OFF mode, Cycle mode, Pulse mode Mounting Front panel mounting, Surface mounting, DIN rail mounting ime deviation  #15sec/month(Ta:25°C) ### doi:10.01% # 0.05sec  #### doi:10.01% # 0.05sec  #### doi:10.01% # 0.05sec  #### doi:10.01% # 0.05sec  ##### doi:10.01% # 0.05sec  ###################################		Number of circuits	Independent 1 circuits(1a)
Front panel mounting, Surface mounting, DIN rail mounting ime deviation  ### ### ### ### ### #### #### #### #	lumber of steps		48 steps for weekly, 24 steps for yearly
ime deviation	Operation mode		ON/OFF mode, Cycle mode, Pulse mode
remperature error    0.01% ±0.05sec	Mounting		Front panel mounting, Surface mounting, DIN rail mounting
Memory protection   Over 5 years (25°C)	ime deviation		±15sec/month(Ta:25℃)
Sulation resistance   Min. 100MΩ (at 500VDC)	emperature error		0.01% ±0.05sec
Dielectric strength  2000VAC 50/60Hz for 1 minute  3000VAC 50/60Hz for 1 minute  42kV the square wave noise(pulse width: 1 minute  50,000 operations (Switching capacity 30 times/1 minute)  42kV the square wave noise(pulse width: 1 minute  50,000 operations (Switching capacity 30 times/1 minute)  42kV the square wave noise(pulse width: 1 minute  50,000 operations (Switching capacity 30 times/1 minute)  42kV the square wave noise(pulse width: 1 minute  50,000 operations (Switching capacity 30 times/1 minute)  42kV the square wave noise(pulse width: 1 minute  50,000 operations (Switching capacity 30 times/1 minute)  42kV the square wave noise(pulse width: 1 minute  50,000 operations (Switching capacity 30 times/1 minute)  42kV the square wave noise(pulse width: 1 minute)  50,000 operations (Switching capacity 30 times/1 minute)  42kV the square wave noise(pulse width: 1 minute)  50,000 operations (Switching capacity 30 times/1 minute)  42kV the square wave noise(pulse width: 1 minute)  42kV the square wave noise(switching capacity 30 times/1 minute)  42kV the square wave noise(switching capacity 30 times/1 minute)  4	Memory protection		Over 5 years(25℃)
doise strength   ±2kV the square wave noise(pulse width:1μs) by the noise simulator	nsulation resistance		Min. 100MΩ (at 500VDC)
Relay   Mechanical   Min. 5,000,000 operations (Switching capacity 30 times/1 minute)   50,000 operations (Switching capacity 20 times/1 minute, at 250VAC 15A(resistive load) >	Dielectric strength		2000VAC 50/60Hz for 1 minute
Helay ife cycle   Electrical   50,000 operations (Switching capacity 20 times/1 minute, at 250VAC 15A(resistive load)>   10 ~ +55°C (at non-freezing status)   10 ~ +55°C (at non-freezi	loise strength		±2kV the square wave noise(pulse width:1μs) by the noise simulator
ife cycle   Electrical   50,000 operations (Switching capacity 20 times/1 minute, at 250VAC 15A (resistive load) >	Relay	Mechanical	Min. 5,000,000 operations (Switching capacity 30 times/1 minute)
mbient humidity  35 ~ 85%RH  storage temperature  -25 ~ +65°C (at non-freezing status)  (6, Max			
torage temperature -25 ~ +65°C (at non-freezing status)  (c, M.	Ambient temperature		-10 ~ +55℃ (at non-freezing status)
pproval CE, •¶La	Ambient humidity		35 ~ 85%RH
· · · · · · · · · · · · · · · · · · ·	Storage temperature		-25 ~ +65 ℃ (at non-freezing status)
Init weight Approx. 110g	Approval		(€, <b>₀%</b> ,
	Jnit weight		Approx. 110g

#### Functions

#### ○Definitions

- •Record : A part of program that controls output operation.
- •Step : Basic component of Record.

#### Operation mode

If the operation mode of Program1 (Program2) is set on Pulse mode initially, the Pulse mode is fixed for additional programs.

#### ●Weekly ON/OFF mode

- Output operation by ON/OFF set time
- Min. time setting unit : 1 min. Able to set ON/OFF day separately
- One Record in two Steps
- (ON day/ON time, OFF day/OFF time)

#### ■Weekly Cycle mode Output turns ON for ON time and turns OFF for OFF time.

- And the ON/OFF cycle is repeated. • Range of ON/OFF time : 1 min.~12:59
- · One Record in three Steps(ON day/ON time.
- OFF day/OFF time, ON width/OFF width)

## ●Weekly Pulse mode

Output turns ON at ON time for a specified pulse width. (Pulse width: 1~59sec, 1~60min) • One Record in two Steps(ON day/ON time, Pulse width)

#### ●Yearly ON/OFF mode

Output turns ON at ON time on START date and turns OFF at OFF time on STOP date.

• One Record in three Steps(START/STOP date, ON/OFF time)

#### Yearly Pulse mode

\*Fix the Weekly/Yearly

M3 tapping screws.

3Detach terminal block from case and rotate

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

timer on the panel with

Output turns ON at ON time on START date and turns OFF at OFF time on STOP time for a specified pulse width repeatedly.

• One Record in three Steps(START/STOP date, ON time, Pulse width)

3) Mounting ON DIN Rail

(4) Assemble case and

case and

terminal

(Unit:mm)

DIN rail

Hold up panel

(Surface mo

terminals block

with a fixing bolt

# (1~59sec 1~60mir ON Time

ON width OFF Tim

Pulse width

OFF Tim

ON Time

OFF width

#### ●Auto("**AL**") Daylight Saving Time mode Current time will be faster as an hour when it is started and will be slower as an hour when Auto mode is finished Automatic Daylight Saving Time period setting

ODaylight Saving Time

OProgram operation

Weekly program setting 1

Yearly program setting 1 Output operation

ODisplay and change of next mode

mode, set Pulse ON time to next mode.

•Normal("nor") power restore mode

Season switching mode

OPower restore mode

power failure.

●ON("an") mode

●① ~ ②:Operated by weekly program setting1

 ② ~ ③ : Operated by weekly program setting? •4 ~ 5 : Operated by weekly program setting1 ●⑤ ~ ⑥ : Operated by yearly program setting1

(During weekly program operation at "START date AM 12:00(⑤)", the weekly

program operation stops, and it changes to yearly program operation mode. The yearly program operation stops at "12:00AM on the next day of STOP

•The day of next mode in program is displayed on the day indicator, and the time of next mode is displayed on the lower row of screen.

•In ON/OFF or Cycle mode, set ON time and OFF time to next mode. In Pulse operation

In setting group 2-LEVEL 2("rEL" is lighted, "RL" or "nor" are flashed), select Auto("RL") or Normal("nor") by ▲ or ▼ keys and press SET key to set.

•Auto("RL") power restore mode

Output(OUT1, OUT2) operates according to program when power turns on again after

When power turns on again after power failure, output is kept OFF and "rin" is flashed on the lower row of screen and power restore input(press SET) key over 3 sec., in RUN

In setting group 2-Level2("**5E**n" is lighted, "**oFF**" is flashed.), select ON("**on**") by **a** or **v** keys and press **SET** key to set.

●(Note): When the season switching mode changed from "aFF" to "an" or vice

Press SET key in period setting per season mode of setting group 2. ("SEn" is flashed, season with preset period is lighted and "START" and "STOP" are lighted.)

②Advance to the flashing position of season selection among S1, S2, S3, S4 by 🛕 or

(SET)key is pressed after set STOP month, date per season, it is advanced to LEVEL1 of period setting per season. Add or adjust the period setting by SET key.

In setting group 2-LEVEL 2("d5L" is lighted, "AL" or "nor" is flashed.), select Auto("AL")

mode) is applied, "cIn" is light out and output operates according to program.

versa, previous set programs are deleted.

▼ keys and press [SET] key.

③ After set START month, date per season and press [SET] key.

Weekly program is switched automatically by season switching.

• Period setting per season

or Normal("nor") by ▲ or ▼ keys and press SET key to set.

Outcomatic Daylight Saving Time period setting LEVEL 1 of setting group 2. ("d5\( \mathbb{L}'\) is flashed and "START" and "STOP" are lighted.)

et START date(Month, date) of automatic Daylight Saving Time mode and press SET

(a) Set START time(AM/PM, Hour) of automatic Daylight Saving Time mode and press SET key. But, the minute will be fixed as 00. (Set STOP date(Month, date) of automatic Daylight Saving Time mode and press SET

key.

⑤Set STOP time(AM/PM, Hour) of automatic Daylight Saving Time mode and press SET key. But, the minute will be fixed as 00.

●Normal("nor") Daylight Saving Time mode

•It is disable to use when it is OFF("oFF").

Press +1h key over 3sec in RUN mode, "+1h" is lighted and current time is faster as an hour and "+1h" is lighted out, current time will be slower as an hour when press [+1h] kev over 3sec again

#### Current time setting

(Ex)Set the current time as 10, Mar, 2008, 5:10 PM.

①Advance to the current time setting mode ②Year, Month, Date setting SUN MON TUE WED THU FRI SAT



it is advanced to current time setting of setting group 2 and clock will be flashed and vill be lighted in second display part, press

3 Current time(AM, PM) setting

MIC-LIL

Press ▲or ▼keys to set 5 PM and move the flashing digit to position min. by ▶key. Press ▲or ▼key to set 10min and press ⑤ET key and it is returned to RUI mode when press MODE key over 3sec.

•It advances to "①Current time setting mode" in ON status and set current time as shown above 2~4 by SET key.

Current time is set up to 31, Dec, 2099.
 Check current year/month/date in RUN mode

When  $\blacktriangleright$  key is pressed over 3sec in RUN mode, it advances to current year/month/date display. After display current year/month/date for 3sec, it returns to RUN mode displaying current display.



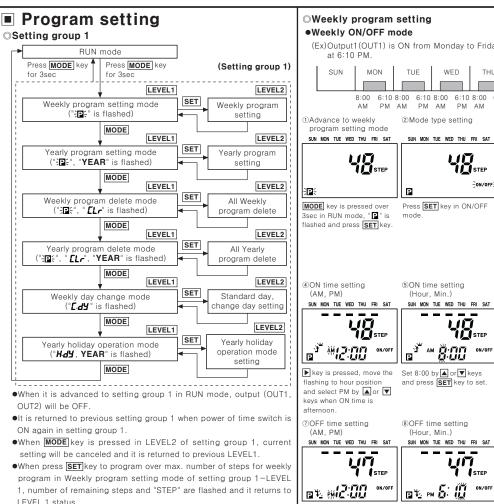


4 Current time (Hour, Min.) setting

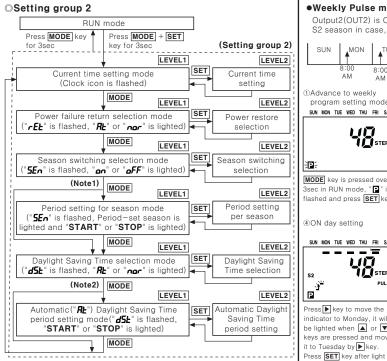
key after press ▲ or ▼ keys to set date 10.



Press ▲ or ▼keys to select PM and move the flashing digit to position hour by key.



#### •When press **SET** key to program over max. number of steps for yearly program in Yearly program setting mode of setting group 1-LEVEL 1, number of remaining steps and "STEP" are flashed it returns to LEVEL 1 status



#### •(Note1) Season switching selection is "aFF".

(Note2) Automatic switching selection of Daylight Saving Time is Normal ("nor").

- •When it advances to setting group 2 in RUN mode, output(OUT1 OUT2) will be OFF.
- •When power of time switch is ON again in setting group 2, it is returned to previous setting group 1.
- ●Front MODE key is pressed in LEVEL2 of setting group 2, it is returned to previous LEVEL1.
- •When season switching selection is changed from " oFF " to " on " or "on" to "off", previous set weekly program will be deleted.

# TUE WED THU FRI

(Ex)Output1(OUT1) is ON from Monday to Friday at 8:00 AM and OFF 8:00 6:10 8:00 6:10 8:00 6:10 8:00 6:10 8:00 6:10 ②Mode type setting ③ON day setting SUN MON TUE WED THU FRI SAT SUN MON TUE WED THU FRI SAT STEP STEP Press key to move the Press SET key in ON/OFF indicator to Monday, it will be lighted when ▲ or ▼ keys are pressed and move it to Tuesday by key. Press SET key after Tues Wednesday, Thursday, Friday **5ON time setting** @OFF day setting (Hour, Min.) SUN MON TUE WED THU FRI SAT SUN MON THE WED THE ERE SAT STEP STEP **₽**₺ ▶ key is pressed, move the Set 8:00 by ▲ or ▼ keys Press SET key to check and press SET key to set ON/OFF day ®OFF time setting (9) Complete to set

SUN MON TUE WED THU FRI SAT Setting STEP program. Move the flashing to min. Press SET key to set additional program

#### •Weekly Pulse mode

Select PM by ▲ or ▼

hour position by 🕨 key.

eys and move the fla

Thursday, Friday,

3<sup>™</sup>[:

Pulse width setting

SUN MON TUE WED THU FRI SAT

and press SET key to set

STEP

ress ▲ or ▼ keys to select Press SET key to set

Output2(OUT2) is ON for 10sec at 8:00AM from Monday to Friday during S2 season in case, period of S1, S2, S3, S4 is set.

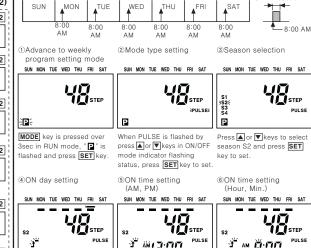
position by key after set

6:00 by▲or▼keys and

set min. as 10 and press

SET key to set.

STEP



# PULSE ا 🖪 ress key to move the Press key, move the Set 8:00 by ▲ or ▼ keys and flashing to hour position and select PM by or ndicator to Monday, it will press SET key to set lighted when 🛕 or 🔻 eys are pressed and move kevs when ON time is to Tuesday by key.

®Complete to set

STEP

#### ●Weekly Cycle mode

(Ex)Output1(OUT1) is ON for 10min and OFF for 5min from Monday



SUN MON TUE WED THU FRI SAT

STEP STEP **:** MODE key is pressed over When CYCLE is flashed by

sec in RUN mode, "₽" is press ▲ or ▼ keys in ON/OFF flashed and press SET key. mode ator flashing status. press SET key to set.

(I)OFF time width setting (I)Complete to set SUN MON TUE WED THU FRI SAT SUN MON TUE WED THU FRI SAT SUN MON TUE WED THU FRI SAT STEP STEP e<sup>st</sup> gg DATE DIE

Move the flashing to min. Move the flashing to min. position by key and set position by key and set nin. as 10 by press▲ or ▼ min. as 5 by press▲ or ▼ keys and press **SET** key to keys and press **SET** key to

Press SET key to set additional program

"●Weekly ON/OFF mode

STEP

to set ON day, ON time,

OFF day and OFF time

#### ○Weekly day change

When the specified day mode is required to install in other day, it is started from the set day and returned to previous program setting automatically

#### Weekly day change cancellation

- 1) Change current year, month, date in current time setting mode @Change standard day
- 3Delete all program in program Season switching

Output is ON in Saturday at 9:00AM and OFF at 12:00PM and it is ON 8:30AM and OFF at 6:00PM from Monday to Friday and the mode of Monday and Tuesday is operated temporarily as Saturday(standard)

Advance to weekly day ②Standard day selection ③Change day selection



n RLIN mode and press it press SET key. peatedly until "[.dy" is After select Saturday as standard day(Sat is lighted) lashed in second display part and press SET key. by ▲ or ▼ keys.

select Monday to cha (Mon is lighted) by keys and repeat procedure to select Tuesday to change (Tue is lighted) and press SET to complete

#### Yearly holiday mode

It is used to off the output without program adjustment during previously set yearly holiday period available from present year to 31. Dec of the next year.

Designate the start date of yearly holiday and year of end date as every year("--") to repeat the holiday mode for specified in every year.

#### ●Setting

lashed in second displa

part and press **SET** key.

keys and date pos

YEAR STOP

Set every year 5, May to off the output.

3Start date of yearly SUN MON TUE WED THU FRI SAT SUN MON TUE WED THU FRI SAT SUN MON TUE WED THU FRI SAT YEAR YEAR TE

YEAR \*\*\*\* H.dy ress MODE key over 3sec

Press **SET** key after check nove to the setting group1 yearly holiday No. n RUN mode and press it

month position will be flashed by press ▶ key and Set May by ▲ or ▼ keys and date press ▶ key. Set 5th by ▲ or ▼ keys and press SET key to set

4End date of yearly ⑤Complete to set SUN MON TUE WED THU FRI SAT

YEAR -H.dy

Month position will be flashed by press▶ key and Set May by ▲ or ▼ will be flashed by press ▶ key. Set 5th by ▲ or ▼ keys and press SET

Press MODE key to finish setting and press SET key

to set additional program \*It is able to set yearly holiday up to 12 times

#### Yearly program setting

#### ◆Yearly ON/OFF mode

(Ex)Output(OUT) is ON from every 5, Apr to 7, Apr at 9:00AM and OFF 5:10PM.

DAdvance to yearly program @Mode type setting ③Start date setting

SUN MON THE WED THE ERE SAT STEP - - YY ON/OF

ress MODE key for 3 sec in Press SET key when RUN mode. "P" is flashed ON/OFF is flashed. and press MODE key once, hen. "P" and YEAR are ashed and press **SET** key o set.

Press key until month

Apr by ▲ or ▼ keys and

SUN MON TUE WED THU FRI SAT

10:00AM

3Start date setting

position by key

move to date pos

key and press SET key after

SUN MON TUE WED THU FRI SA

YEAR

set 2nd by ▲ or ▼ keys.

MI WINTE

l 📵

@ON time setting

(Hour Min.)

YEAR

yy PULSE

YEAR

**≱**YEAR€

STEP

ON/OFF

is flashed and set

press key until date Press SET key after set 5th by▲or▼keys. ⑤ON time setting(AM, PM) ⑥ON time setting(Hour, Min. End date setting

SUN MON TUE WED THU FRI SAT

he flashing is moved to

Apr and press key until ate position is flashed. ress SET kev after set 7th

oress ▲ or ▼ keys and set and select PM by ▲ or ▼ afternoon.

OFF time setting(AM, PM) ®OFF time setting(Hour, Min.) @Complete to set



SUN MON TUE WED THU FRI SAT

and move the flashing to nour position by **\b** key.

₽¥ PM 5: 0N/OFF

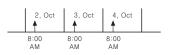
SUN MON TUE WED THU FRI SAT SUN MON TUE WED THU FRI SAT

Select PM by ▲ or ▼keys Move the flashing to minute Press SET key to set position by key after set 5 for hour by ▲ or ▼ keys and press SET key after the minute as 10 by ▲ or ▼

YEAR

#### ●Yearly Pulse mode

(Ex)Output(OUT) is ON from 2, Oct, 2008 to 4, Oct, 2008 at 10:00AM and OFF after 5sec. (Present is 2007.)



Advance to yearly program @Mode type setting setting mode

SUN MON TUE WED THU FRI SAT



YEAR STEP PULSES ₽

Press MODE key for 3 sec When PULSE is flashed by Press ▲ or ▼ keys to set year n NN/OFF 2008 (08) and move to month nd press **MODE** key once, mode indica status, press SET key to set. Set Oct by ▲or ▼key nen. "D" and YEAR are shed and press SET key o set.

 End date setting ⑤ON time setting (AM PM)

SUN MON TUE WED THU FRI SAT YEAR STOP 11\_1.

YEAR yy PULSE PULSE

Move to end month position pkey is pressed, move the Set 10:00 by a or √keys by key and set 4th by flashing to hour position and press SET key to set. by key and set 4th by flashing to hour position and select PM by flashing to relate to end and select PM by flashing to flashing to hour position and select PM by flashing to flashing to hour position. ress SET kev

tion by key and keys when ON time is ®Complete to set

Pulse width setting SUN MON TUE WED THU FRI SAT SUN MON TUE WED THU FRI SAT

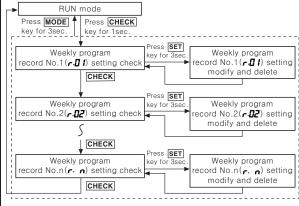


width as 5s additional program and press SET kev.

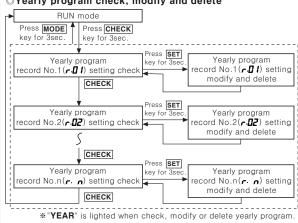
☀It is able to set year of start date and end date in yearly program setting up to 2 years later from present year.

### Program check, modify and delete

Weekly program check, modify and delete



#### Yearly program check, modify and delete



•If any key is untouched for 60sec, it is returned to RUN mode in weekly or yearly program check.

•In weekly or yearly program check, it controls output depending on program setting and output is OFF in modify or delete mode.

●When MODE key is pressed in weekly or yearly program record modify, delete stand by or delete mode, current work is cancelled and it is returned to check mode.

•Weekly or yearly program record modify and delete

#### (1)Program record modify

①When press SET key over 3sec in program check, "Edt" is flashed in second display part, press SET key.

2 It is returned to check mode when finish the modify same as the above procedure.

#### (2)Program record delete

①When press SET key over 3sec in program check, " Edt " is flashed in second display part, press ▲ or ▼keys until "[Lr is flashed in second display part and press SET key.

#### ②Press SET key over 3sec when "[[Lr" is lighted in second display part, it is returned to program check.

#### Caution for using

. Please use within the rated power and apply or cut the power at once to prevent from chattering.

When test dielectric voltage and insulation resistance of the control pane with this unit installed.

①Please insulate this unit from the circuit of control panel.

②Please make all terminals of this unit short-circuited. When control a heater, please install the thermostatic switch at load

Installation environment

①It shall be used indoor ②Altitude Max. 2000m ③Pollution Degree 2 ④Installation Category II.

It may cause malfunction if above instructions are not followed.

# Maior products

Photoelectric sensors rea sensors Fiber optic sensors Door/Door side sensors

ressure sensors

aphic/Logic panels

nperature controllers hometer/Pulse(Rate) meters mperature/Humidity transducers

Laser marking system(CO<sub>2</sub>, Nd:YAG)

Laser welding/soldering system

vitching power supplies Stepping motors/drivers/motion controllers ield network devices

The proposal of a product improvement

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