APT1 / APT1-B
WEEKLY PROGRAMMABLE TIMER

MANUAL

⚠ **WARNING**   Indicating a message , If not complied, May cause a misoperation to cause a person to receive Damage or property damage.

This product contains battery ! battery may be in danger of leaking or explosion and causing personal injury.
Do not use the product at temperature of more than 55 degrees Celsius. Do not contact with liquid.
Battery life depends on the usege.

⚠ **CAUTION**
Do not contact the terminal when the power ON.
This may be caused by an electric shock or personal injury.
terminal cover must be installed after the wiring.

🚫 Do not use in places with inflammable and explosive gases.

❗ Please cut off the power of the load or manual output to OFF and confirm the security of the system before changing the setting. Otherwise, it may cause damage to the machine.

⚠ Serious injury may occasionally occur due to fire or explosion of a battery, or leakage from a battery. Never attempt to short the positive and negative terminals, recharge, disassemble, deform by applying excessive pressure, or expose the battery to fire.
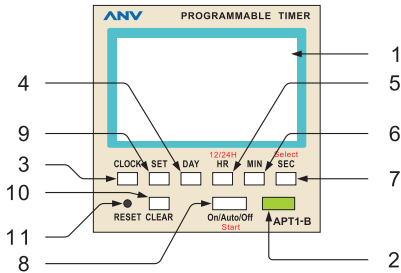
■ NOTICE
1. Have the Timer installed only by qualified electrical workers.
2. Use the Timer within the specified ratings for operating temperature and humidity.
3. The Timer is not waterproof or oil resistant. Do not use it in locations subject to water or oil.
   Do not use the Timer in locations subject to excessive dust, corrosive gas, or direct sunlight.
4. Be sure to wire the terminals correctly and correct polarity.
5. Take adequate protective measures (such as a breaker, or fuse)for the power supply of the Timer.
6. Do not touch the input terminal while power is being supplied; touching live terminals may result in electric shock.
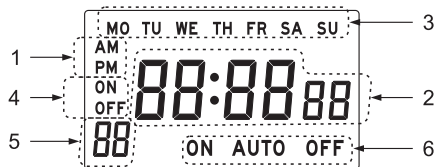
■ SPECIFICATIONS

Model	APT1	APT1-B
Rated Voltage	12~60VDC/AC , 100~240VAC/DC 50/60Hz	
Voltage Range	Rated 90~110%	
Contact Rating	250VAC 15A Resistive load	
Mounting & Socket	Surface : P2CF-08 Flush : Y-50+US-08 ; Y-50+P3G-08	
Indicator Operating	ON : Green OFF : Red	
Backlight	---	○
Life	Mechanical: 5000000 times Electrical: 100000 times	
Dielectric Strength	1000V AC for 1 minute between input terminals and case(ground) 1500V AC for 1 minute between output terminals and case(ground)	
Power Consumption	Approx. 3VA	
Ambient Temperature	-10℃~+50℃	
Ambient Humidity	45~85%RH	
Weight	Approx. 130g	

■ PARTS DESCRIPTION

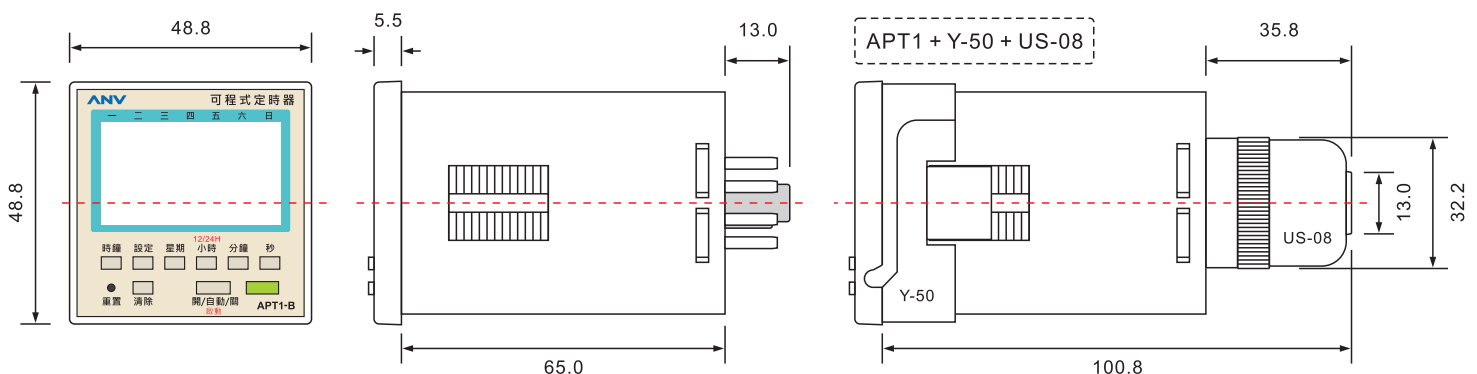| SYMBOL	NAME	FUNCTION
1	LCD Display	Display working status (See DISPLAY DESCRIPTION table)
2	Output Indicator	ON: Green light ; OFF: Red light
3	Clock Key	Shift key of clock setting
4	Week Key	Weekday setting ; 15 options for choose
5	Hour Key/ 12/24H Key	Hour setting / Change clock mode 12H/24H
6	Minute Key	Minute setting
7	Second Key	Second setting
8	Manual Output Key / Start Key	Keep output cantact state open or close / Start program
9	Program Key	Program number setting ; Maximum of 30 programs ON/OFF
10	Clear Key	Clear setting
11	Reset Key	Hold down 2 seconds to reset and restore manufature default

■ DISPLAY DESCRIPTION

SYMBOL	DESCRIPTION
1	Display AM or PM
2	Display hours, minutes and seconds
3	Display weekly
4	Display program ON or OFF
5	Display program number
6	Display output status (Flicker is manual output mode)

＊ When switch to Auto mode from ON or OFF, output contact will be kept in the previous mode. Than, output contact will be controlled by program setting.
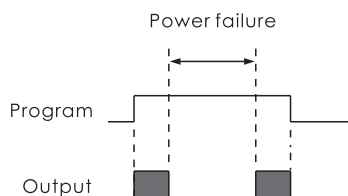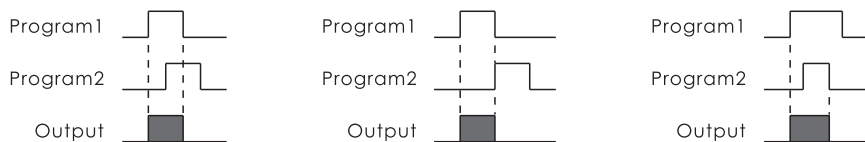
■ DIMENSIONS

■ POWER BACKUP FEATURE

The timer retains clock operation and program memory when external power fail. With external power failure, the contact position will be held in OFF position until the power is restored.
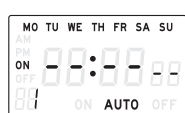
See right chart:

Power failure

Program

Output

■ PROGRAM OVERLAPPING TIMING CHART

Program1 / Program2 / Output

Program1 / Program2 / Output

Program1 / Program2 / Output

■ CLOCK SETTING METHOD

Press CLOCK key+ DAY key set the current weekday
Press CLOCK key+ HR key set the current hour
Press CLOCK key+ MIN key set the current minute
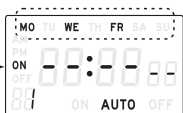Press CLOCK key+ SEC key set the current second

■ WEEKLY SETTING Table

	MO	TU	WE	TH	FR	SA	SU
1	●	●	●	●	●	●	●
2	●	●	●	●	●	●	
3	●	●	●	●	●		
4						●	●
5	●						
6		●					
7			●				
8				●			
9					●		
10						●	
11							●
12	●	●	●				
13				●	●	●	
14	●		●	●			
15		●		●		●	

■ PROGRAM TIME SETTING METHOD
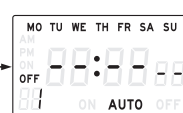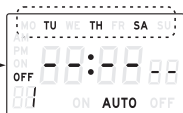

Press SET key into the program 1 of output ON settings.

Press DAY key set the weekday. Only 15 options can choose.
See WEEKLY SETTING table.

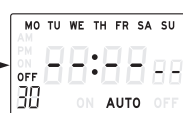Set the time with HR key and MIN key and SEC key. Press CLEAR Key clear time.

Press SET key into the program 1 of output OFF settings.

Press DAY key set the weekday.
Only 15 options can choose.

Set the time with HR key and MIN key and SEC key. Press CLEAR Key clear time.
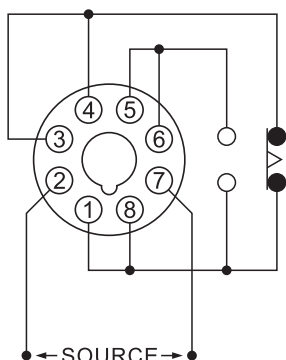
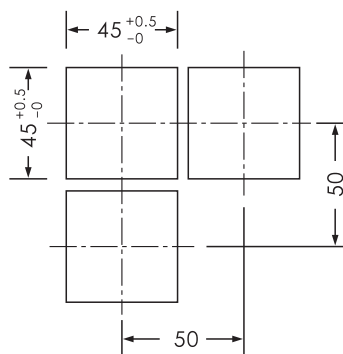Press SET key into the program 2; and the like. Maximum of 30 program of output ON and output OFF.

Press Start key to start run program.
In RUN mode, Display the current program ON or OFF.

■ CONNECTION DIAGRAMS

←SOURCE→

■ HOLE SIZE

45 +0.5 −0
45 +0.5 −0
50
50