ANV ANV

ANV ELECTRIC

APT2-S WEEKLY PROGRAMMABLE TIMER

MANUAL



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.

A 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.

- O Do not use in places with inflammable and explosive gases.
- Tighten the terminal screws to the rated torque. 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

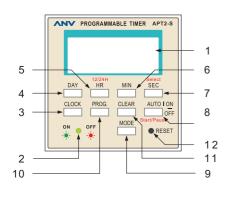
- 1. Have the Timer installed only by qualified electrical workers.
- 2. Use the Timer within the specified ratings for operating temperature and humidity.
- 3. The Timer is not waterproof or oil resistant. Do not use it in locations subject to water or oil.

 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	APT2-S		
Rated Voltage	100~240VAC/DC;12~60VDC/AC 50/60Hz		
Voltage Range	Rated 90~110%		
Contact Rating	250VAC 20A Resistive load		
Mounting & Socket	Surface: N-3TB; Flush:Y-72		
Indicator Operating	ON: Green OFF: Red		
Backlight	with 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°C~+50°C		
Ambient Humidity	45~85%RH		
Weight	Approx. 178g		

■ 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
5	Hour Key/ 12/24H Key	Hour setting / Change clock mode 12H/24H
6	Minute Key	Minute setting
7	Second Key / Select Key	Second setting / Memory and backlight option select key
8	Manual Output Key/ Start Key/Pause Key	Keep output cantact state open or close / Start program; Star or pause program in twin timer mode
9	Mode Key	Mode function setting
10	Program Key	Program number setting; Maximum of 80 programs ON/OFF
11	Clear Key	Clearsetting
12 Reset Key		Hold down 2 seconds to reset and restore manufature default

■ DISPLAY DESCRIPTION



6 * 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.

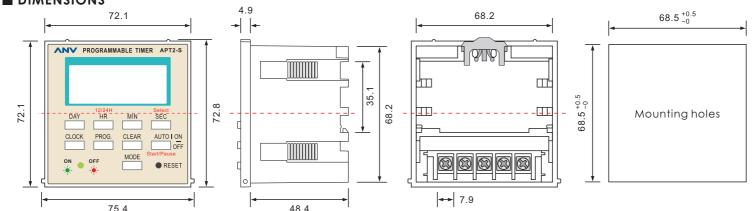
STMBOL	DESCRIFTION
1	Display AM or PM
2	Display hours, minutes and seconds
3	Display weekly
4	Display program ON or OFF
5	Display program number
6	Display twin timer mode
7	Display output status

DESCRIPTION

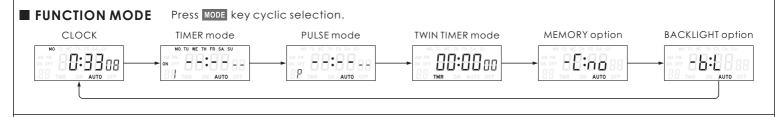
■ TIME ADJUSTMENT

- 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.





SVMBOL



■ FUNCTION OPERATION

TIMER mode operation Controls the output according to the set time of ON and OFF. (Example: ON at 8:30 and OFF at 17:30 on Manday through Friday.)



ON time of program 1 in TIMER mode, press DAY key switch to MO then press CLOCK key to choose. Repeatedly operating until FR.

Press HR key or MIN key or SEC key setting time to 08:30.

Press PROG. key switch to OFF time of program1. Press DAY key switch to MO then press CLOCK key to select. Repeatedly operating until FR.

Press HR key or MIN key or SEC key setting time to 17:30

Press Start/Pause key start program and return to clock status

PULSE mode operation Output turns on for a fixed period(pulse width) at the set ON time. (Example: ON at 8:30, 12:00, 13:00 and 17:30 on Manday through Friday. Pulse width 15 seconds.)



In PULSE mode, press SEC key set pulse width to 15 sec. press PROG. key switch to ON time of program1

press DAY key switch to MO then press CLOCK key to choose, repeatedly operating until FR. Press HR key or MIN key setting time to 08:30, then Press PROG. key switch to program2

Setting weekly from MO to FR. Setting time to 12:00. Press PROG. key switch to program3

Setting weekly from MO to FR. Setting time to 13:00. Press PROG. key switch to program4

Setting weekly from MO to FR. Setting time to 17:30

Press Start/Pause key start program and return to clock status.

TWIN TIMER mode operation Repeatedly turns ON and OFF during the period from the cyclic start time to the stop time. Independent ON and OFF time setings are possible. (Example: ON time width 30 seconds and OFF time width 6 minutes.)



ON time to 30 seconds. press PROG. key switch to OFF time.

Press MIN key setting OFF time to 6 minutes.

Start/Pause key start TWIN timer of ON time and begin count down.

Start/Pause key again then count down will be pause and show \$ symbol on the LCD.

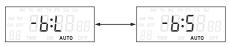
the **CLEAR** key and then press the Start/Pause key to re-timing.





SYMBOL	FUNCTION	DESCRIPTION
-[:no	Non-Memory	After reset clock and setting value will be restore to menufacture default
-[:46	Memory	After reset setting value still exists, but clock vaule is reset

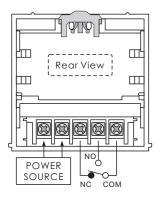
BACKLIGHT option Press Select key to select long backlight or short backlight.



Symbol	FUNCTION	DESCRIPTION
-P:F	Long Backlight	Backlight keep on (if no input power then backlight keep off.)
-6:5	Short Backlight	Press any key backlight keep on 30 seconds. (if no input power then backlight keep off.)

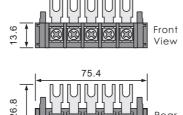
■ PROGRAM OVERLAPPING TIMEING CHART

■ CONNECTION DIAGRAMS



ACCESSORIES (Order Separately)

N-3TB (Surface Mounting Models)

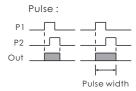


Rear View

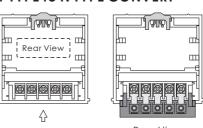
ON OFF

Note: P1=Program1; P2=Program2; Out=Output

Timer:



Y TYPE to N TYPE CONVERT



N-3TB

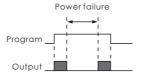
Rear View



Front View

■ 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:



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