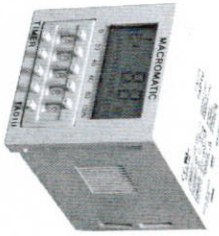


# Macromatic

## TIMER

# M A N U A L

# TAD1U



For your safety, please read the following before using.

### Caution for your safety

- Please observe the cautions and read them before using this unit.
- Warning** Serious injury may result if instructions are not followed. Product may be damaged, or injury may result if instructions are not followed.
- Caution** The following is an explanation of the symbols used in the operation manual.
  - Caution/Injury or danger may occur under special conditions.

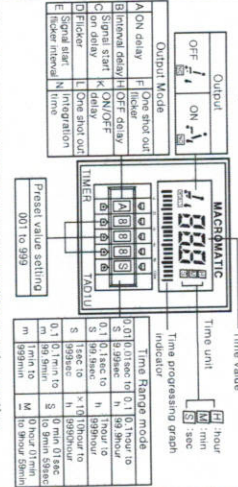
### Warning

- In case of using this unit with machinery(Nuclear power control, medical equipment, vehicle, train, airplane, coast guard, etc.), please refer to the manufacturer's installation manual. It may result in serious damage, fire or human injury.
- This must be mounted on panel.
- Do not treat or check up when power on.
- Do not disassemble and modify this unit, when it requires. If it may give an electric shock and cause a fire.

### Caution

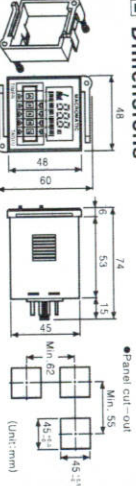
- This unit shall not be used outdoors.
- It might shorten the life cycle of the product or give an electric shock. It might shorten the life cycle of the product and cause a fire.
- Do not use the load beyond rated switching capacity of Relay contact. It may cause insulation failure, contact melt, contact failure, fire etc.
- In cleaning the unit, do not use water or an organic solvent.
- It might cause an electric shock on the terminals when the product is humidity, direct ray of the sun, radiant heat, vibration, impact etc. It may cause explosion.
- Please be careful not to blow dust or wire clippings into the unit. It may cause a fire or malfunction.

### Front panel identification



\*The above specification are changeable without notice anytime.

### Dimensions

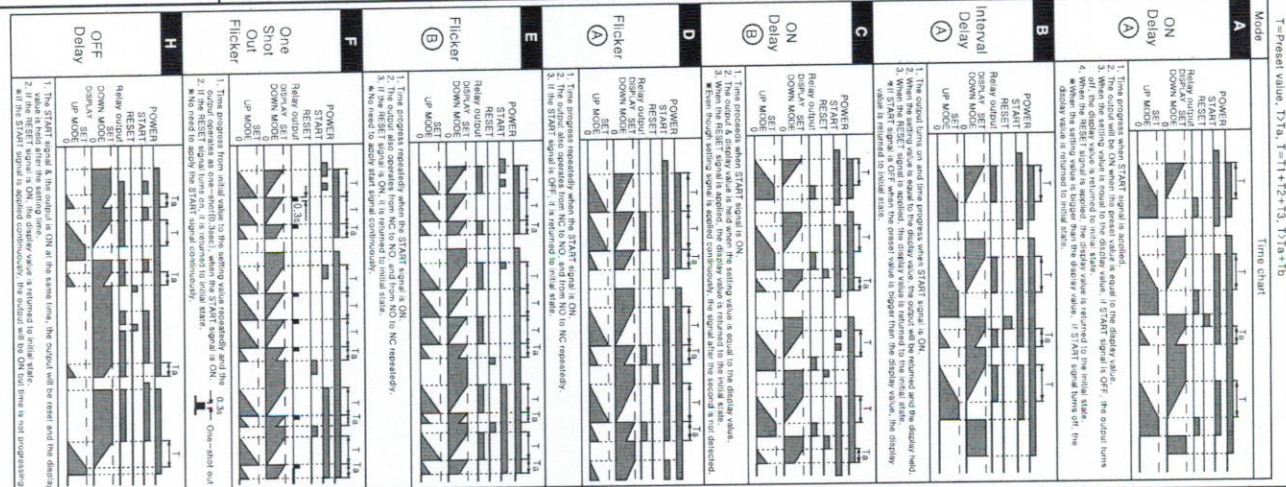


### Specifications

Item	TAD1U
Function	Multi operating, Multi times
Power supply	24-240VAC 50/60Hz, 24-240VDC
Display method	LCD 7-segment
Allowable voltage range	90 to 110% of rated voltage
Power consumption	Max. 2.5VA (Power supply 24VDC) Max. 1W(24VDC)
Alarm time	Max. 0.2sec
Min. Inhibit delay time	Min. 20ms
RESET input	No-voltage reset Inhibit reset Residual voltage: Max. 0.5VDC
INHIBIT input	Max. 0.2sec
HECSET input	Inhibit reset (10kΩ)
Type	Time limit - 38D11(1)
Output mode	250VAC 2A resistive load A, B, C, D, E, F, H, K, L, N
Ambient temperature	-10 to 55°C (indoor - freezing stand) -25 to 85°C (outdoor - freezing stand)
Storage temperature	-25 to 85°C (indoor - freezing stand) -40 to 125°C (outdoor - freezing stand)
Relative humidity	Max. 95%RH
Conduction	Power Start: 0.5A Signal Start: Max. ±0.005V ±0.03sec
Temperature error	±0.1% at 20°C
Inhibition resistance	Min. 100kΩ (for 50VDC)
Noise strength	2000VAC 50/60Hz for 1 minute
Mechanical life	25 million times
Life expectancy	30000 hours
Shock	Shock: 500m/s² for 10ms (X, Y, Z directions for 3 times) Vibration: 100m/s² for 10min (X, Y, Z directions for 3 times)
Relay	Min. 100,000,000 times Max. 100,000,000 times (250VAC 2A resistive load)
Weight	Approx. 100g

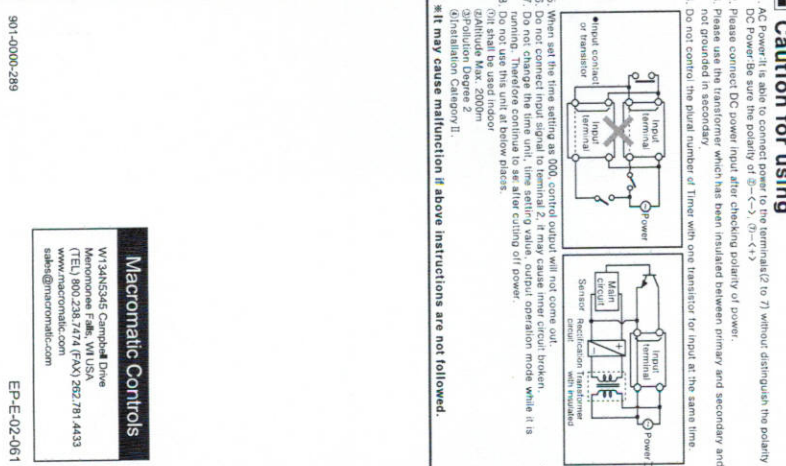
### Output operation mode

- Panel cut-out
- \* This product has 10 output mode from A to N by digital switch in front.
  - A: Present value, 1\*10A, 1\*1+1\*2+1\*3, 1\*10+1\*5



### Caution for using

- AC Power is able to connect power to the terminals(2 to 7) without distinguish the polarity DC Power. The polarity of (2)-(3), (7)-(4) is not distinguish.
- Please use the transistorer which has checking insulation between primary and secondary and not grounded in secondary.
- Do not connect the power number of Timer with one transistorer for input at the same time.
- When set the time setting as 000, control output will not come out.
- Do not change the time unit, time setting status, output operation mode while it is on. If you change the time unit, setting status, output operation mode while it is on, it will cause malfunction. (Attribute Max. 2000ms)
- Do not use this unit at below places:
  - Place where the used indoor
  - Place where the used outdoor
  - Place where the used in high humidity
  - Place where the used in high temperature
  - Place where the used in high vibration
  - Place where the used in high dust
  - Place where the used in high salt
  - Place where the used in high magnetic field
  - Place where the used in high electric field



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