**Autonics** CE CAN'US

## **ANALOG TIMER** ATS11 SERIES

Thank you very much for selecting Autonics products. For your safety, please read the following before using.

#### Caution for vour safetv

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

\* Please observe the cautions that follow

Marning 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. 

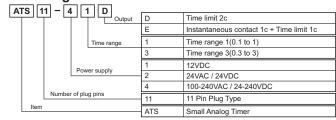
#### Marning

- 1. In case of using this unit with machinery(Ex: nuclear power control, medical equipment, ship, vehicle, train, airplane, combustion apparatus, safety device, crime/disaster prevention equipment, etc) which may cause damages to human life or property, it is required to install fail-safe device.
- It may cause a fire, human injury or property loss 2. Install the unit on a panel.
- It may cause electric shock
- 3. Do not connect, inspect or repair this unit when power is on. It may cause electric shock
- 4. Do not disassemble the case. Please contact us if it is required. It may cause electric shock or a fire.

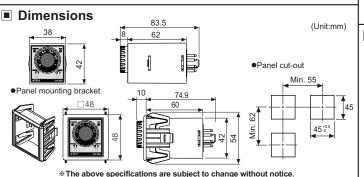
### **△** Caution

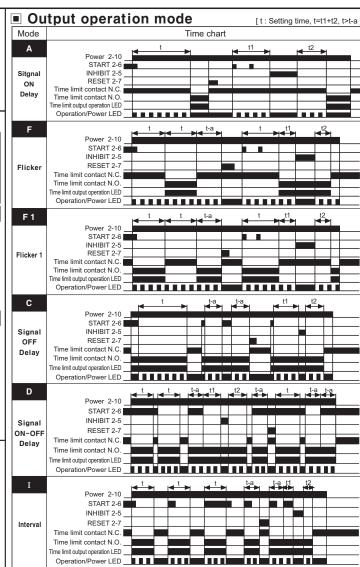
- 1. This unit shall not be used outdoors.
- It might shorten the life cycle of the product or cause electric shock.
- 2. Please observe the rated specifications.
- It might shorten the life cycle of the product and cause a fire. 3. Do not use beyond of the rated switching capacity of Relay contact.
- It may cause insulation failure, contact melt, contact failure, relay broken and fire etc.
- 4. In cleaning unit, do not use water or an organic solvents. And use dry towels.
- It may cause electric shock or a fire.
- 5. Do not use this unit in place where there are flammable or explosive gas, humidity, direct ray of the light, radiant heat, vibration and impact, etc. It may cause a fire or an explosion.
- 6. Do not inflow dust or wire dregs into the unit.
- It may cause a fire or a malfunction

### Ordering information



\* 11 Pin Socket(PG-11, PS-11): Sold separately





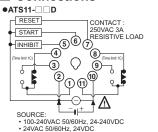
Note)1. If power is cut or the RESET terminal is short-circuited, the timer will be reset.

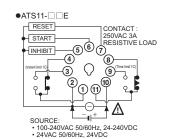
2. If the INHIBIT terminal is short-circuited during a timing cycle, the time will stop

3. When using F. F1 output operation modes, if the time is set too short, the output may not work properly

due to contact output response time. Please set the time at least over 100ms.

#### Connections





Specifications

_ 0	90	01110	ations			
Model			ATS11-0 1D	ATS11-0 3D	ATS11-□ 1E	ATS11-□ 3E
Control time setting range		etting range	0.1sec to 10hour	0.3sec to 30hour	0.1sec to 10hour	0.3sec to 30hour
Power supply			* 100-240VAC 50/60Hz, 24-240VDC (Universal) * 24VAC 50/60Hz, 24VDC (Universal) * 12VDC			
Allowable voltage range			90 to 110% of rated voltage			
Power consumption			• 100-240VAC : 3.5VA, 24-240VDC : 1.5W • 24VAC : 4VA, 24VDC : 1.5W • 24VAC : 4.5VA, 24VDC : 2W • 24VAC : 4.5VA, 24VDC : 2W • 24VAC : 4.5VA, 24VDC : 2W			
Return time			Max. 100ms			
Min. inpu	ıt	START	Min. 50ms			
signal width		RESET				
		INHIBIT				
		START	No-voltage input ☞ Shot-circuit impedance : Max. 1kΩ			
Input		RESET	Residual voltage : Max. 0.5V			
		INHIBIT	Open-circuit impedance : Min. 100kΩ			
Control output C	Contac	Туре	Time limit DPDT(2	c)	Time limit SPDT(1c), Ir	stantaneous SPDT(1c)
		Capacity	250VAC 3A resistive load			
Relay	Mechanical		Min.10,000,000 times			
life cycle	Ele	ectrical	Min. 100,000 times(250VAC 3A resistive load)			
Repeat error			Max. ± 0.2% ± 10ms			
Setting error			Max. ± 5% ± 50ms			
Voltage error			Max. ± 0.5%			
Temperature error			Max. ± 2%			
Insulation resistance			100MΩ (at 500VDC megger)			
Dielectric stength			2000VAC 50/60Hz for 1 minute			
Ambient temperature			−10 to 55°C(at non-freezing status)			
Storage temperature			-25 to 65°C(at non-freezing status)			
Ambient humidity			35 to 85%RH			
Approval			(€; ≥ <b>)</b>			
Unit weight			Approx. 72g			
*Environ	mer	nt resistand	ce is rated at no freezi	ng or condensation.		

### Caution for using

- 1.Power circuit for ATS 11 Timer is designed without using a transformer. For the power of sensor, therefore, use isolation transformer which is not grounded on secondary side in order to cut off the unnecessary current flow as shown in Figure 1.
- 2.Please use the terminal ② as the common terminal as shown in Figure 3. If use the terminal (10) as common terminal as shown in Figure 2, it might cause damage to inner circuit of ATS11Timer.
- 3. Please connect DC power input after checking polarity of power.
- 4.In case of 12VDC/24VAC/24VDC model. isolated and limited voltage/current or Class 2 sources should be provided for power supply.
- 5. When appling the power to the timer, please apply the rated power at the moment by switch, relay, etc.
- Otherwise it might cause malfunction. 6.When suppling the power to the timer, connection as shown in Figure 4.
- It might cause malfunction due to
- leakage current though resistance (R) and condenser (C). Please connect R and C as shown in Figure 5 to prevent malfunction as shown in Figure 5. 7.In order to apply input signals(START, RESET, INHIBIT), short-circuit the terminal no. ②一⑤, ②一⑥ or
- 2-1. It may cause internal circuit damage by wrong connections. 8.Do not wire START, RESET, INHIBIT signal input line with power line, high voltage line in parallel.
- 9.It might cause malfunction if change the setting time, time range or operation mode during unit operating. Please change the setting time, time range or operation mode after cut the power off.
- 10.Do not use this unit at below places.
  - Place where there are severe vibration or impact. 2 Place where strong alkalis or acids are used.
  - 3 Place where there are direct ray of the sun
- Place where strong magnetic field or electric noise are generated.
- 11 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.

■ Photoelectric sensors

■ Fiber ontic sensors

■ Pressure sensors

Sensor controllers

■ Graphic/Logic panels

■ Panel meters

■ Display units

■ Timers

#### Major products ■ Proximity sensors

- Area sensors
- Door/Door side sensors
- Counters
- Rotary encoders

- Power controllers

- Temperature controllers
- Tachometer/Pulse(Rate) meters
- Temperature/Humidity transducers
- Stepping motors/drivers/motion controllers
- Laser marking system(CO<sub>2</sub>, Nd:YAG)
- Laser welding/soldering system

# Autonics Corporation

Satisfiable Partner For Factory Automation

■HEAD QUARTERS :

Isolation

### Korea OVERSEAS SALES :

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The proposal of a product improvement

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