

Autonics

8 Pin PLUG TYPE ANALOG TIMER ATE8 SERIES

INSTRUCTION MANUAL



Thank you for choosing our Autonics product.
Please read the following safety considerations before use.

■ Safety Considerations

- ※ Please observe all safety considerations for safe and proper product operation to avoid hazards.
- ※ ⚠ symbol represents caution due to special circumstances in which hazards may occur.

- ⚠ Warning** Failure to follow these instructions may result in serious injury or death.
- ⚠ Caution** Failure to follow these instructions may result in personal injury or product damage.

⚠ Warning

- Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss.** (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime/disaster prevention devices, etc.) Failure to follow this instruction may result in fire, personal injury, or economic loss.
- Install on a device panel to use.** Failure to follow this instruction may result in electric shock or fire.
- Do not connect, repair, or inspect the unit while connected to a power source.** Failure to follow this instruction may result in electric shock or fire.
- Check 'Connections' before wiring.** Failure to follow this instruction may result in fire.
- Do not disassemble or modify the unit.** Failure to follow this instruction may result in electric shock or fire.

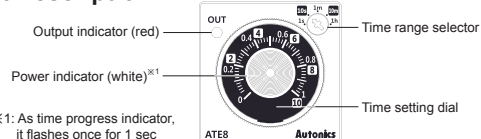
⚠ Caution

- Use the unit within the rated specifications.** Failure to follow this instruction may result in fire or product damage.
- Use dry cloth to clean the unit, and do not use water or organic solvent.** Failure to follow this instruction may result in electric shock or fire.
- Do not use the unit in the place where flammable/explosive/corrosive gas, humidity, direct sunlight, radiant heat, vibration, impact, or salinity may be present.** Failure to follow this instruction may result in fire or explosion.
- Keep metal chip, dust, and wire residue from flowing into the unit.** Failure to follow this instruction may result in fire or product damage.

■ Ordering Information

ATE	8	—	4	3	D	※ 8-pin socket (PG-08, PS-08 (N)) is sold separately.
						No mark Time limit 1c+Instantaneous 1a
						D Time limit 2c
						E Time limit 1c+Instantaneous 1c
						1 1 sec/10 sec/1 min/10 min/1 hour
						3 3 sec/30 sec/3 min/30 min/3 hour
						6 6 sec/60 sec/6 min/60 min/6 hour
						C 12 sec/12 min/24 min/12 hour/24 hour
						4 100-240VAC 50/60Hz, 24-240VDC
						8 8-pin plug type
						ATE Analog timer

■ Unit Description



※ 1: As time progress indicator, it flashes once for 1 sec

- ※ The above specifications are subject to change and some models may be discontinued without notice.
- ※ Be sure to follow cautions written in the instruction manual and the technical descriptions (catalog, homepage).

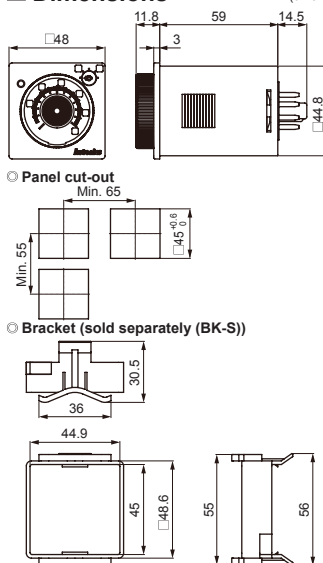
■ Specifications

Model	ATE8-4	ATE8-4-D	ATE8-4-E
Function	Power ON Delay Timer		
Control time setting range ^{※1}	0.1 sec to 24 hour		
Power supply	100-240VAC~ 50/60Hz, 24-240VDC=		
Permissible voltage range	90 to 110% of rated voltage		
Power consumption	Max. 3.5VA (100-240VAC~ 50/60Hz), Max. 2.0W (24-240VDC=)		
Return time	Max. 200ms		
Time operation	Power ON Start		
Control output	Contact type	Time-limit SPDT (1c)+ Instantaneous SPST (1a)	Time-limit DPDT (2c)
	Contact capacity	250VAC~ 3A, 30VDC= 3A resistive load	
Relay	Mechanical	Min. 5,000,000 operations	
life cycle	Electrical	Min. 100,000 operations (250VAC 3A resistive load)	
Repeat error		Max. ±0.3% ±0.01 sec	
Set error		Max. ±5% ±0.05 sec	
Voltage error		Max. ±0.5% ±0.01 sec	
Temp. error		Max. ±2% ±0.01 sec	
Insulation resistance	Over 100MΩ (at 500VDC megger)		
Dielectric strength	2,000VAC 50/60Hz for 1 min		
Noise immunity	±2kV the square wave noise (pulse width 1μs) by noise simulator		
Vibration	Mechanical	0.75mm amplitude at frequency 10 to 55Hz (for 1 min) in each X, Y, Z direction for 1 hour	
	Mafunction	0.5mm amplitude at frequency 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 min	
Shock	Mechanical	300ms ² (approx. 30G) in each X, Y, Z direction for 3 times	
	Mafunction	100ms ² (approx. 10G) in each X, Y, Z direction for 3 times	
Environment	Ambient temp.	-10 to 55°C, storage: -25 to 65°C	
	Ambient humid.	35 to 85%RH, storage: 35 to 85%RH	
Protection structure	IP40 (front part, IEC standard)		
Approval	CE, cRU, us		
Weight ^{※2}	Approx. 122.2g (approx. 75g)		

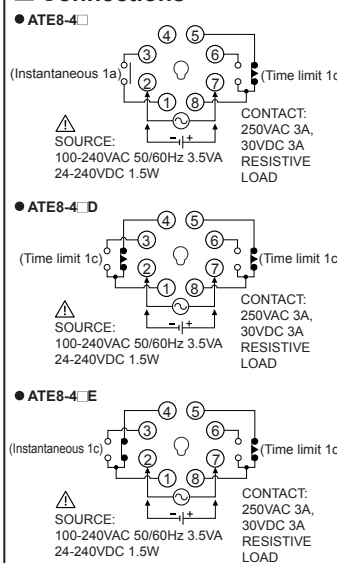
■ Time Specifications

Model	Time range	Time unit	Time setting range	Model	Time range	Time unit	Time setting range
ATE8-41	1	s	0.1 to 1 sec	ATE8-46	6	s	0.6 to 6 sec
	10		1 to 10 sec		60		6 to 60 sec
	1	m	0.1 to 1 min		6	m	0.6 to 6 min
ATE8-43	1	h	0.1 to 1 hour	ATE8-4C	6	h	0.6 to 6 hour
	3	s	0.3 to 3 sec		12	s	1.2 to 12 sec
	30	s	3 to 30 sec		12	m	1.2 to 12 min
	3	m	0.3 to 3 min		12	h	1.2 to 12 hour
	30	m	3 to 30 min		24		2.4 to 24 min
	3	h	0.3 to 3 hour		24		2.4 to 24 hour

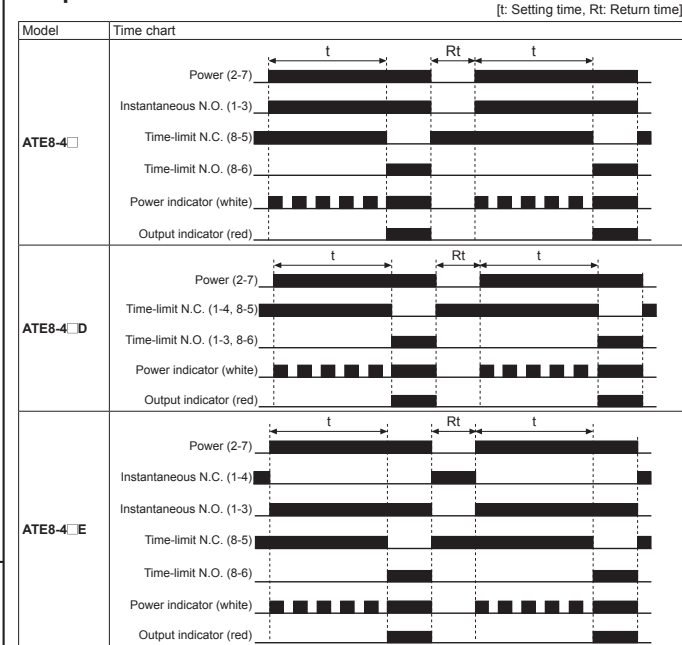
■ Dimensions



■ Connections



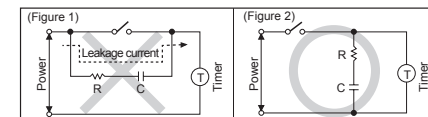
■ Operation Mode



※ In case of ATE8-41, ATE8-4-E, after operating instantaneous contact, time-limit contact operates within 30ms.

■ Cautions during Use

- Follow instructions in 'Cautions during Use'. Otherwise, it may cause unexpected accidents.
- When supplying or turning off the power, use a switch or etc. to avoid chattering.
- Install a power switch or circuit breaker in the easily accessible place for supplying or disconnecting the power.
- In order to avoid leakage current flowing, connect resistance and condenser as (Figure 2). If connect as (Figure 1), it may cause malfunction due to leakage current.



- Keep away from high voltage lines or power lines to prevent inductive noise.
- In case installing power line and input signal line closely, use line filter or varistor at power line and shielded wire at input signal line.
- Do not use near the equipment which generates strong magnetic force or high frequency noise.
- Connect output contacts of different pole to be electrokinetic potential.
- Change setting time (T1), time range or etc. after turning off the power of the timer.
- This unit may be used in the following environments.
 - ① Indoors (in the environment condition rated in 'Specifications')
 - ② Altitude max. 2,000m
 - ③ Pollution degree 2
 - ④ Installation category II

■ Major Products

- Photoelectric Sensors
- Fiber Optic Sensors
- Door Sensors
- Area Sensors
- Proximity Sensors
- Pressure Sensors
- Rotary Encoders
- Connectors/Sockets
- Switching Mode Power Supplies
- Control Switches/Lamps/Buzzers
- I/O Terminal Blocks & Cables
- Stepper Motors/Drivers/Motion Controllers
- Graphic/Logic Panels
- Field Network Devices
- Laser Marking System (Fiber, Co₂, Nd: YAG)
- Laser Welding/Cutting System
- Temperature Controllers
- Temperature/Humidity Transducers
- SSRs/Power Controllers
- Counters
- Timers
- Panel Meters
- Tachometers/Pulse (Rate) Meters
- Display Units
- Sensor Controllers

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