Autonics

$W21.5 \times H28 \text{ mm}$ **Analog Timers**



ATM Series

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- Miniature Size (W 21.5 × H 28 × L 59.3 mm)
- 4c (4PDT) contact (250 VAC∼, 3 A)
- High precise time control
- Easy time setting using dial
- Various time ranges
- : 0.1 sec to 3 hour (11 time ranges, different by models)
- Power supply ATM4-2: 24 VDC== ATM4-5: 220 VAC~ 50 / 60 Hz ATM4-6: 110 VAC $\sim 50\,/\,60~\text{Hz}$

Safety Considerations

- Observe all 'Safety Considerations' for safe and proper operation to avoid hazards.
- ▲ symbol indicates caution due to special circumstances in which hazards may occur.

Warning Failure to follow instructions may result in serious injury or death.

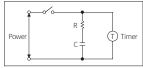
- 01. Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime/disaster prevention devices, etc.) ailure to follow this instruction may result in personal injury, economic loss or fire.
- 02. Do not use the unit in the place where flammable/explosive/corrosive gas, high humidity, direct sunlight, radiant heat, vibration, impact or salinity may be present.
- Failure to follow this instruction may result in explosion or fire. 03. Install on a device panel to use.
- Failure to follow this instruction may result in fire or electric shock. 04. Do not connect, repair, or inspect the unit while connected to a power source.
- Failure to follow this instruction may result in fire or electric shock. 05. Check 'Connections' before wiring.
- Failure to follow this instruction may result in fire. 6. Do not disassemble or modify the unit. Failure to follow this instruction may result in fire or electric shock.

▲ Caution Failure to follow instructions may result in injury or product damage.

- 01. Use the unit within the rated specifications.
- ailure to follow this instruction may result in fire or product damage 02. Use a dry cloth to clean the unit, and do not use water or organic solvent.
- Failure to follow this instruction may result in fire or electric shock. 03. Keep the product away from metal chip, dust, and wire residue which flow into the unit.

Cautions during Use

- Follow instructions in 'Cautions during Use'.
- Otherwise, it may cause unexpected accidents. Power supply should be insulated and limited voltage/current or Class2, SELV power supply device
- 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 like below. Otherwise, it may cause malfunction.



• After turning off the power, change the time range, etc.

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.

- This unit may be used in the following environments.
- Indoors (in the environment condition rated in 'Specifications') - Altitude max. 2,000 m
- Pollution degree 2
- Installation category II

Failure to follow this instruction may result in fire or product damage.

Ordering Information

This is only for reference.

For selecting the specified model, follow the Autonics website.

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ATM4 0 0 -

Power supply 2:24 VDC== 5: 220 VAC $\sim 50\,/\,60$ Hz

6: 110 VAC $\sim 50\,/\,60$ Hz

O Time unit

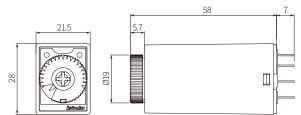
S: SEC M: MIN H: HOUR

O Time range

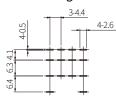
Number: max. time

Dimensions

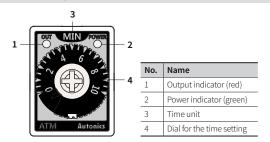
- Unit: mm, For the detailed drawings, follow the Autonics website.
- Mount the My socket (sold separately).



Pin arrangement



Unit Descriptions

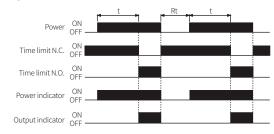


Time Range

Model	Time unit	Time range
ATM4-D1S		0.1 to 1
ATM4-D5S	SEC	0.5 to 5
ATM4-D10S		1 to 10
ATM4- 30S		3 to 30
ATM4-060S		6 to 60
ATM4-🗆 3M		0.3 to 3
ATM4-D5M	MIN	0.5 to 5
ATM4-D10M		1 to 10
ATM4- 30M		3 to 30
ATM4-D60M		6 to 60
ATM4-🗆 3H	HOUR	0.3 to 3

Operation Timing Chart

• t: setting time, Rt : return time

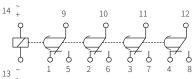


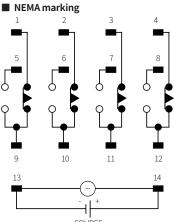
Connections

∆ Caution : See the 'specifications' for checking the power supply and control output.

IEC marking

• This type of connection is marked on the product.





SOURCE

Specifications				
ATM4-2	ATM4-5	ATM4-6		
Power ON Delay				
\leq 100 ms				
Power ON Start				
Relay				
4PDT (4c)				
250 VAC \sim 3 A, 24 VDC == 3 A resistive load				
Repeat: $\le \pm 0.5\% \pm 10 \text{ ms}$ SET: $\le \pm 10\% \pm 50 \text{ ms}$ Voltage: $\le \pm 0.5\% \pm 10 \text{ ms}$ Temp:: $\le \pm 2\% \pm 10 \text{ ms}$				
C€ERL				
\approx 42 g (\approx 48 g)				
24 VDC==	220 VAC \sim 50 / 60 Hz	110 VAC \sim 50 / 60 Hz		
21.6 - 26.4 VDC===	200-230 VAC~ 50/60 Hz	100-120 VAC~ 50 / 60 Hz		
$\approx 1.2 \text{W}$	≈3VA	≈3VA		
\geq 100 M Ω (500 VDC== megger)				
3,000 VAC~ at 50 / 60 Hz for 1 min				
3,000 VAC~ at 50 /	60 Hz for 1 min			
±2 kV square-way	ve noise by noise simulator (p			
± 2 kV square-way 0.75 mm amplitude direction for 1 hour	re noise by noise simulator (p e at frequency of 10 to 55 Hz	(for 1 min) in each X, Y, Z		
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	Power ON Delay $\leq 100 \text{ ms}$ Power ON Start Relay 4PDT (4c) 250 VAC~ 3 A, 24 V Repeat: $\leq \pm 0.5\%$ SET: $\leq \pm 10\% \pm \frac{1}{2}$ Voltage: $\leq \pm 0.5\%$ Temp.: $\leq \pm 2\% \pm \frac{1}{2}$ C € FII $\approx 42 \text{ g} (\approx 48 \text{ g})$ 24 VDC= 21.6 - 26.4 VDC= $\approx 1.2 \text{ W}$	Power ON Delay $\leq 100 \text{ ms}$ Power ON StartRelay4PDT (4c)250 VAC~ 3 A, 24 VDC= 3 A resistive loadRepeat: $\leq \pm 0.5\% \pm 10 \text{ ms}$ SET: $\leq \pm 10\% \pm 50 \text{ ms}$ Voltage: $\leq \pm 0.5\% \pm 10 \text{ ms}$ Temp.: $\leq \pm 2\% \pm 10 \text{ ms}$ C € FII $\approx 42 \text{ g} (\approx 48 \text{ g})$ 24 VDC=21.6 - 26.4 VDC=200 - 230 VAC~ 50 / 60 Hz $\approx 1.2 W$ $\approx 3 VA$		

35 to 85%RH, storage: 35 to 85%RH (rated at no freezing or condensation)

Ambient humidity