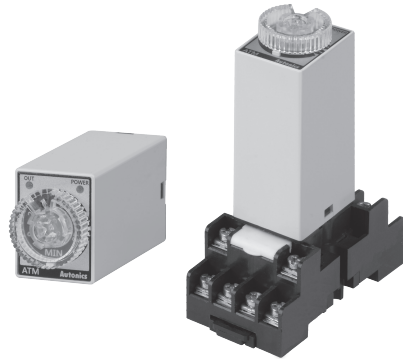# ATM Series

W21.5×H28mm Miniature Timer

▣ Features

- Miniature Size (W21.5×H28×L59.3mm)
- 4c (4PDT) contact (250VAC, 3A)
- 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: 24VDC
  - ATM4-5: 220VAC 50/60Hz
  - ATM4-6: 110VAC 50/60Hz

Mounting My socket
(sold separately)

▣ Ordering Information

ATM	4	—	5	10	S

Time unit	S	Sec (1, 5, 10, 30, 60)
	M	Min (3, 5, 10, 30, 60)
	H	Hour (3)
Time range	Number	Max. time range
Power supply	2	24VDC
	5	220VAC 50/60Hz
	6	110VAC 50/60Hz
Output	4	4c (4PDT)
Item	ATM	Miniature Analog Timer

▣ Specifications

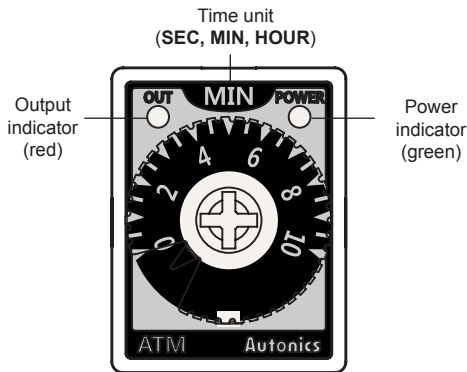| Model		ATM4 - 2□S 2□M 23H	ATM4 - 5□S 5□M 53H	ATM4 - 6□S 6□M 63H
Function		Power ON Delay		
Control time setting range[1]		0.1sec to 3hour		
Power supply		24VDC⎓	220VAC∼ 50/60Hz	110VAC∼ 50/60Hz
Allowable voltage range		21.6-26.4VDC⎓	200-230VAC∼ 50/60Hz	100-120VAC∼ 50/60Hz
Power consumption		Approx. 1.2W	Approx. 3VA	Approx. 3VA
Return time		Max. 100ms		
Timing operation		Power ON Start		
Control output	Contact type	4PDT (4c)		
	Contact capacity	250VAC∼ 3A, 24VDC⎓ 3A resistive load		
Relay life cycle	Mechanical	Min. 10,000,000 operations		
	Electrical	Min. 200,000 operations		
Repeat error		Max. ±0.5% ±10ms		
SET error		Max. ±10% ±50ms		
Voltage error		Max. ±0.5% ±10ms		
Temperature error		Max. ±2% ±10ms		
Insulation resistance		Over 100MΩ (at 500VDC megger)		
Dielectric strength		3,000VAC 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 of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 1 hour		
	Electrical	0.5mm amplitude at frequency of 10 to 55HHz (for 1 min) in each X, Y, Z direction for 10 min		
Shock	Mechanical	300m/s² (approx. 30G) in each X, Y, Z direction 3 times		
	Electrical	100m/s² (approx. 10G) in each X, Y, Z direction 3 times		
Environment	Ambient temperature	-10 to 50℃, storage: -25 to 65℃		
	Ambient humidity	35 to 85%RH, storage: 35 to 85%RH		
Weight[2]		Approx. 48g (approx. 42g)		

※1: Refer to time specifications for control time setting range by model.
※2: The weight includes packaging. The weight in parenthesis is for unit only.
※Environment resistance is rated at no freezing or condensation.
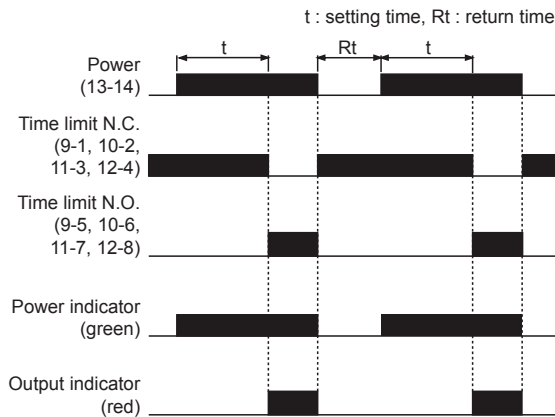
Miniature Analog Timer

■ Unit Descriptions

Time unit
(**SEC, MIN, HOUR**)

Output
indicator
(red)

Power
indicator
(green)

OUT **MIN** POWER

0 2 4 6 8 10

ATM   Autonics

■ Time Specifications

Model	Time unit	Time setting range
ATM4-☐1S	SEC	0.1 to 1sec
ATM4-☐5S		0.5 to 5sec
ATM4-☐10S		1 to 10sec
ATM4-☐30S		3 to 30sec
ATM4-☐60S		6 to 60sec
ATM4-☐3M	MIN	0.3 to 3min
ATM4-☐5M		0.5 to 5min
ATM4-☐10M		1 to 10min
ATM4-☐30M		3 to 30min
ATM4-☐60M		6 to 60min
ATM4-☐3H	HOUR	0.3 to 3hour

■ Operation Specifications

t : setting time, Rt : return time

Power
(13-14)

Time limit N.C.
(9-1, 10-2,
11-3, 12-4)

Time limit N.O.
(9-5, 10-6,
11-7, 12-8)

Power indicator
(green)

Output indicator
(red)

■ Connections

SOURCE	ATM4-2☐☐	24VDC 1.2W
	ATM4-5☐☐	200-230VAC 50/60Hz 3VA
	ATM4-6☐☐	100-120VAC 50/60Hz 3VA
CONTACT		250VAC 3A, 24VDC 3A RESISTIVE LOAD

● **IEC marking**

14 ~ +   9   10   11   12

13 ~ -   1   5   2   6   3   7   4   8
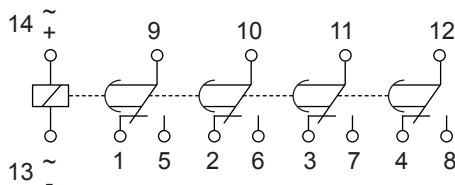
※IEC marking is on the unit.

● **NEMA marking**

1   2   3   4

5   6   7   8

9   10   11   12

13   14

~

- +

SOURCE

ATM Series

■ Dimensions

(unit: mm)

21.5

28
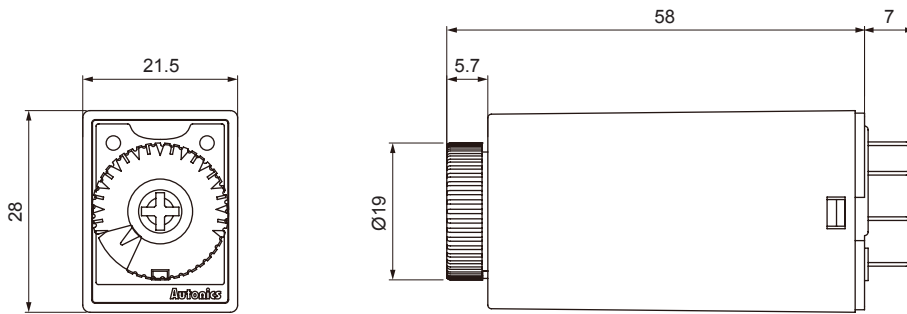
※Use My socket which is commercially available.

58

7

5.7

Ø19

◎ **Pin arrangement**

3-4.4

4-2.6

4-0.5

4.1

6.3

6.4
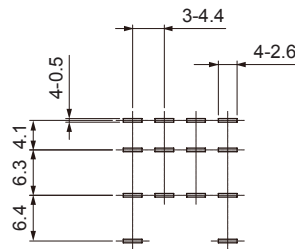
■ Proper Usage

- Follow instructions in 'Proper Usage'. Otherwise, it may cause unexpected accidents.
- 24VDC power supply should be insulated and limited voltage/current or Class 2, 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 as (Figure 2).
  If connect as (Figure 1), it may cause malfunction due to leakage current.

(Figure 1)
Leakage current
Power
R   C
T Timer

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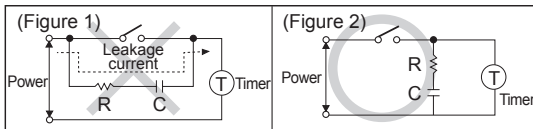
- Keep away from high voltage lines or power lines to prevent inductive noise.
  In case installing power line and input signal line closely, use line filter or varistor at power line and shielded wire at input signal line.
  Do not use near the equipment which generates strong magnetic force or high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

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