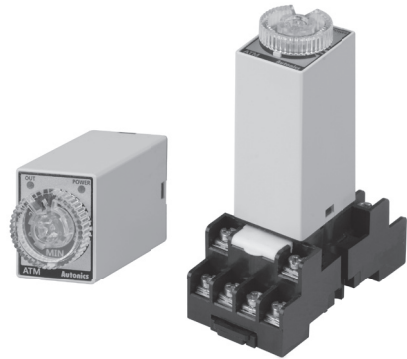# ATM Series

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

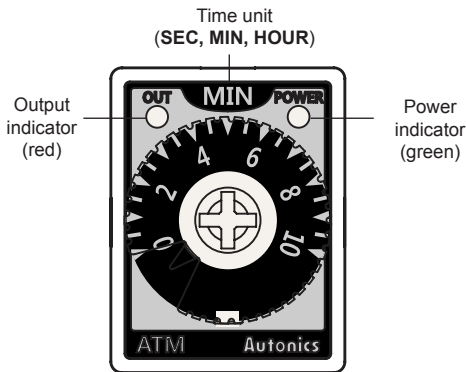| Model		ATM4 - 2☐S 2☐M 23H	ATM4 - 5☐S 5☐M 53H	ATM4 - 6☐S 6☐M 63H
Function		**Power ON Delay**		
Control time setting range※1		0.1sec to 3hour		
Power supply		24VDC⎓	220VAC∼ 50/60Hz	110VAC∼ 50/60Hz
Allowable voltage range		21.6-26.4VDC⎓	200-230VAC∼ 50/60Hz	100-120VAC∼ 50/60Hz
Power consumption		Approx. 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.
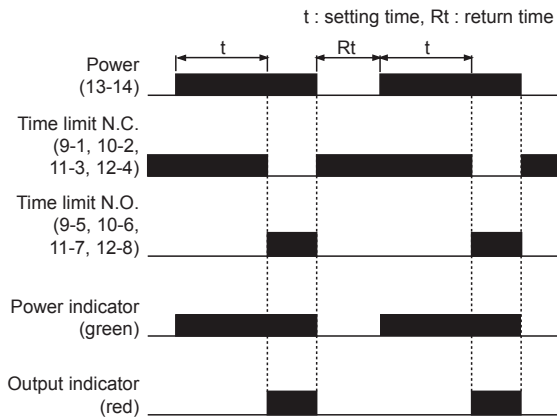
Autonics

Miniature Analog Timer

■ Unit Descriptions

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

Output indicator (red)

Power indicator (green)

OUT **MIN** POWER

2 4 6 8 0 10

ATM Autonics

■ Time Specifications

Model	Time unit	Time setting range
ATM4-□1S		0.1 to 1sec
ATM4-□5S		0.5 to 5sec
ATM4-□10S	SEC	1 to 10sec
ATM4-□30S		3 to 30sec
ATM4-□60S		6 to 60sec
ATM4-□3M		0.3 to 3min
ATM4-□5M		0.5 to 5min
ATM4-□10M	MIN	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 $\overset{\sim}{+}$ 9   10   11   12

13 $\overset{\sim}{-}$ 1   5   2   6   3   7   4   8
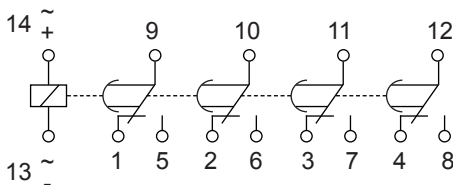
※IEC marking is on the unit.

● **NEMA marking**

1   2   3   4

5   6   7   8

9   10   11   12

13   14

SOURCE

ATM Series

▣ Dimensions

(unit: mm)

● Pin arrangement
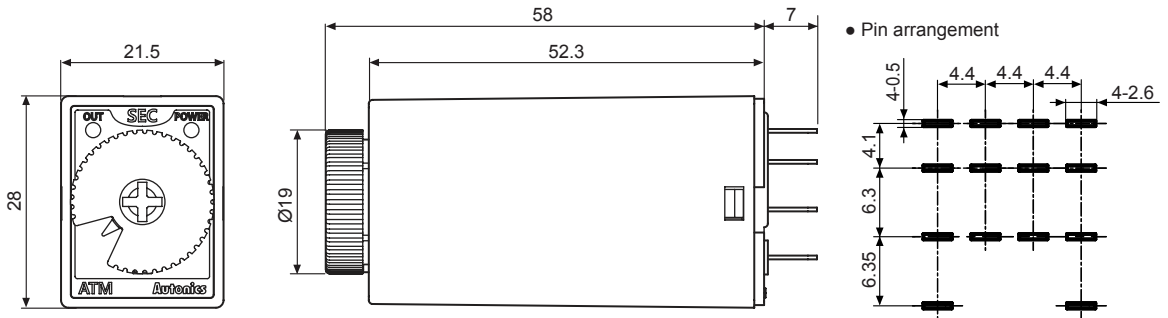
※Use My socket which is commercially available.

▣ Proper Usage

- For DC power supply type, be sure to check the polarity of terminals.
- 24VDC power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.
- Please supply power quickly at once with using switch or relay contact. Otherwise it may cause time error or power reset failure.
- When supplying the power to the timer, connection shown in (Figure 1) might cause malfunction due to leakage current through R and C. Please connect R and C as shown in (Figure 2) to prevent malfunction.

- Do not use this unit at below places.
  - Place where temperature or humidity is out of the rated specifications.
  - Place where there is condensation by temperature changes.
  - Place where there is flammable gas or corrosive gas.
  - Place where there is dust, oil or severe vibration or impact.
  - Place where strong alkalis or acids is used.

(Figure 1)

(Figure 2)

Autonics