

ATS8W/ATS11W Series

Twin Timer With Free Power, Compact Size W38×H42mm

■ Features

- Wide power supply range
: 100-240VAC 50/60Hz, 24-240VDC universal, 24VAC 50/60Hz, 24VDC universal, 12VDC
- Various output operations (6 operation modes)
- Multi time range (12 types of time range)
- Twin timer to set ON/OFF time individually
- Close and DIN rail mounting
with the dedicated socket (PS-M8) width 41mm (for ATS8W)
- Easy mounting and installation/maintenance with
the dedicated bracket for DIN 48×48mm



⚠ Please read "Safety Considerations" in operation manual before using.



■ Ordering Information

ATS 8 W - 4 1

Time range	1	Time range 1 (0.1 to 1)
	3	Time range 3 (0.3 to 3)
Power supply	1	12VDC
	2	24VAC 50/60Hz, 24VDC
	4	100-240VAC 50/60Hz, 24-240VDC
Time operation	W	Twin (flicker) operation
Number of plug pins	8	8-pin plug type
	11	11-pin plug type
Item	ATS	Compact Analog Timer

※Sockets (8-pin sockets: PG-08, PS-08(N), PS-M8/11-pin sockets: PG-11, PS-11(N)) are sold separately.

■ Specifications

Model	ATS8W-□1	ATS11W-□1	ATS8W-□3	ATS11W-□3
Function	ON/OFF Flicker operation			
Control time setting range ^{※1}	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	•Max. 4.2VA (100-240VAC~), Max. 2W (24-240VDC≡) •Max. 4.5VA (24VAC~), Max. 2W (24VDC≡)			
Return time	Max. 100ms			
Timing operation	Power ON Start			
Control output	Contact type	Time limit DPDT (2c) or Instantaneous SPDT (1c)+Time limit SPDT (1c) selectable by output operation mode		
	Contact capacity	250VAC~ 3A resistive load		
Relay life cycle	Mechanical	Min. 10,000,000 operations		
	Electrical	Min. 100,000 operations (250VAC 3A resistive load)		
Repeat error	Max. ±0.2% ±10ms			
SET error	Max. ±5% ±50ms			
Voltage error	Max. ±0.5%			
Temperature error	Max. ±2%			
Insulation resistance	Over 100MΩ (at 500VDC megger)			
Dielectric strength	2,000VAC 50/60Hz for 1 minute			
Noise immunity	ATS□W-1□ ATS□W-2□	±500V the square wave noise (pulse width 1μs) by noise simulator		
	ATS□W-4□	±2kV the square wave noise (pulse width 1μs) by noise simulator		
Vibration	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for 1min) in each X, Y, Z direction for 1hour		
	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz (for 1min) in each X, Y, Z direction for 10min		
Shock	Mechanical	300m/s ² (approx. 30G) in each X, Y, Z direction 3 times		
	Malfunction	100m/s ² (approx. 10G) in each X, Y, Z direction 3 times		
Environment	Ambient temp.	-10 to 55°C, storage: -25 to 65°C		
	Ambient humi.	35 to 85%RH, storage: 35 to 85%RH		
Approval	CE c UL US			
Accessory	Bracket			
Weight ^{※2}	Approx. 100g (approx. 75g)			

※1: Refer to time specifications for control time setting range by model.

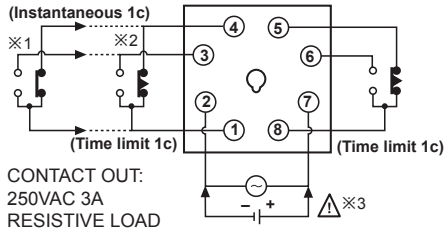
※2: The weight includes packaging. The weight in parenthesis is for unit only.

※Environment resistance is rated at no freezing or condensation.

Compact Twin Analog Timer

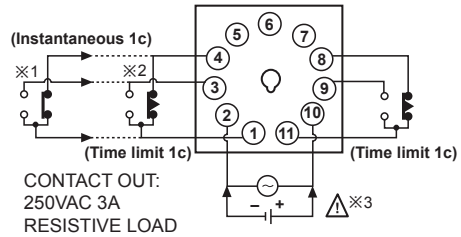
■ Connections

○ ATS8W

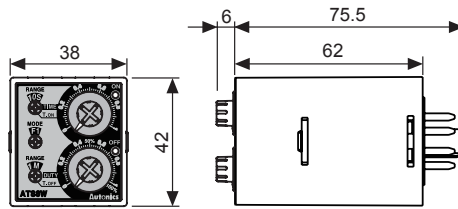


- ※1: When selecting [F2], [N2] output operation mode.
- ※2: When selecting [F1], [F3], [N1], [N3] output operation mode.
- ※3: AC/DC voltage: 100-240VAC 50/60Hz, 24-240VDC
24VAC 50/60Hz, 24VDC
DC voltage: 12VDC

○ ATS11W

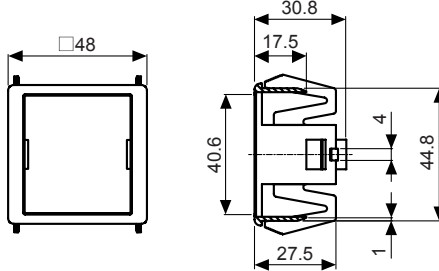


■ Dimensions

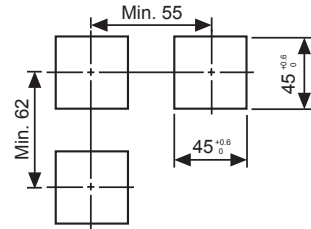


※8-pin, 11-pin socket (sold separately) refer to page G-19.

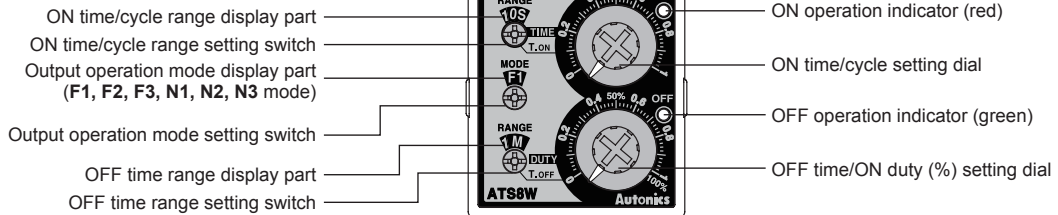
● Bracket



● Panel cut-out



■ Unit Description



■ Time Specifications

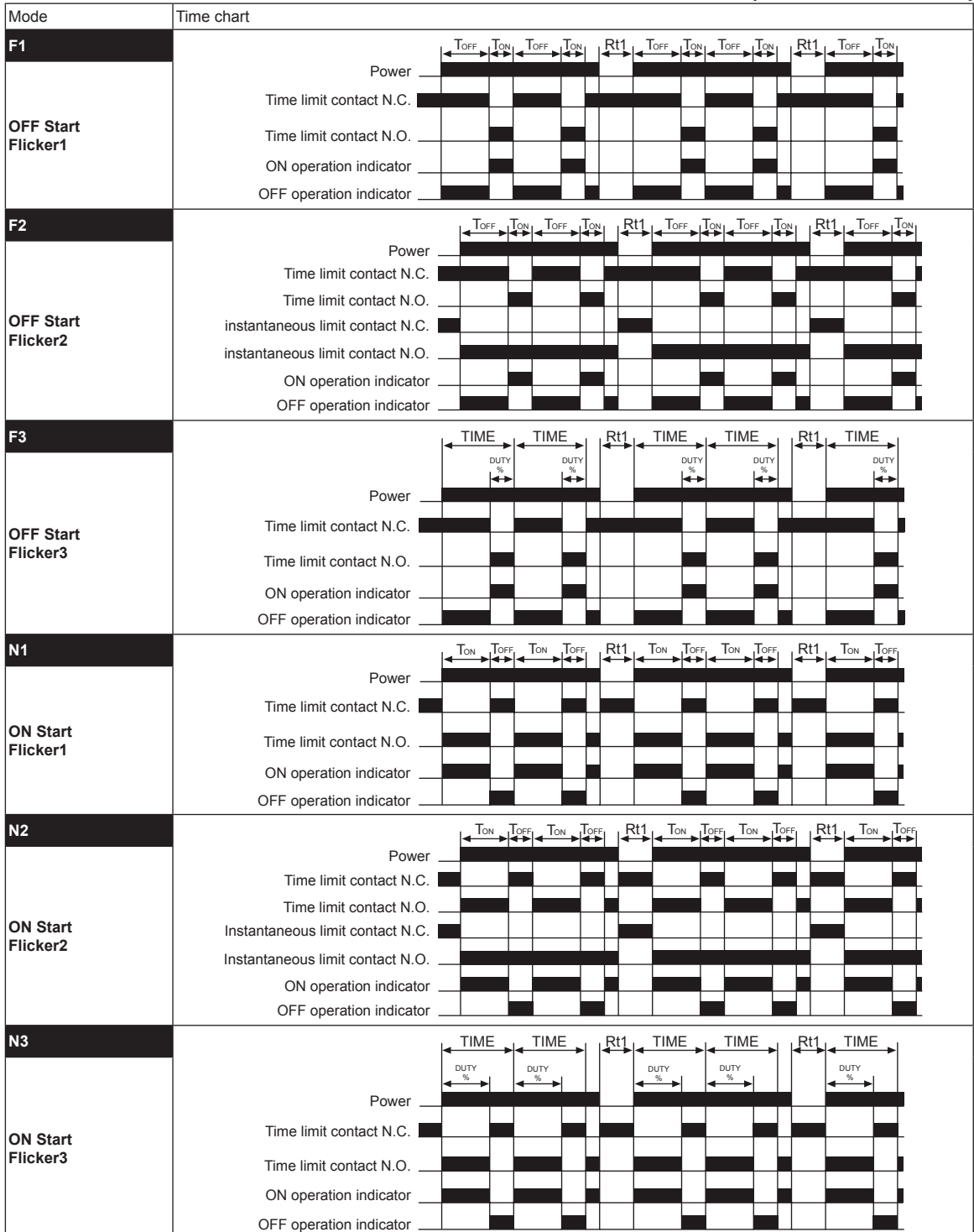
Model	Time range	Time unit	Time setting range	
ATS□W-□1	1S	SEC	0.1 to 1sec	
	10S		1 to 10sec	
	1M	MIN	0.1 to 1min	
	10M		1 to 10min	
	1H		HOUR	0.1 to 1hour
	10H			1 to 10hour
ATS□W-□3	1S	SEC	0.3 to 3sec	
	10S		3 to 30sec	
	1M	MIN	0.3 to 3min	
	10M		3 to 30min	
	1H		HOUR	0.3 to 3hour
	10H			3 to 30hour

(A)	Photoelectric Sensors
(B)	Fiber Optic Sensors
(C)	Door/Area Sensors
(D)	Proximity Sensors
(E)	Pressure Sensors
(F)	Rotary Encoders
(G)	Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets
(H)	Temperature Controllers
(I)	SSRs / Power Controllers
(J)	Counters
(K)	Timers
(L)	Panel Meters
(M)	Tacho / Speed / Pulse Meters
(N)	Display Units
(O)	Sensor Controllers
(P)	Switching Mode Power Supplies
(Q)	Stepper Motors & Drivers & Controllers
(R)	Graphic/ Logic Panels
(S)	Field Network Devices
(T)	Software

ATS8W/ATS11W Series

Output Operation Mode

[T_{ON}: ON Setting time, T_{OFF}: OFF Setting time, TIME: Cycle, DUTY: ON Time duty rate, Rt: Return time, Rt1>Rt]



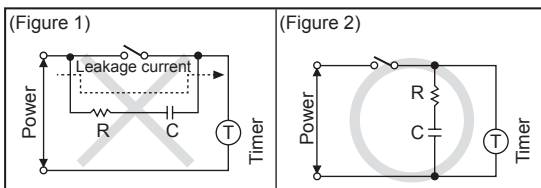
※Setting time should be over 100ms. If not, it may cause abnormal output operation due to under 100ms of setting time.

※[F3], [N3] mode operates flicker by setting cycle (time) and ON duty (%). ON time range changes to cycle (time) range and OFF time range changes to ON duty (%).

Compact Twin Analog Timer

■ Proper Usage

- Connect DC power input after checking polarity of power.
- 12VDC, 24VDC, 24VAC power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.
- When applying the power to the timer, apply the rated power at the moment by switch, relay, etc. Otherwise it might cause malfunction.
- [F3], [N3] mode operates flicker by setting cycle (time) and ON duty(%). ON time range changes to cycle (time) range and OFF time range changes to ON duty(%).
- When supply the power to the Timer, connection shown in (Figure 1) might cause malfunction due to leakage current through R and C. Connect R and C as shown in (Figure 2) to prevent malfunction.



- It might cause malfunction if changing the setting time, time range or operation mode during operating unit. Change the setting time, time range or operation mode after cut the power off.
- Do not use this unit at below places.
 - Place where there are severe vibration or impact.
 - Place where strong alkalis or acids are used.
 - Place where there are direct ray of the sun.
 - Place where strong magnetic field or electric noise are generated.
- Installation environment
 - Indoors
 - Altitude max. 2,000m
 - Pollution degree 2
 - Installation category II

(A)	Photoelectric Sensors
(B)	Fiber Optic Sensors
(C)	Door/Area Sensors
(D)	Proximity Sensors
(E)	Pressure Sensors
(F)	Rotary Encoders
(G)	Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets
(H)	Temperature Controllers
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