Autonics ANALOG TIMER ATS8W/ATS11W SERIES

INSTRUCTION MAUAL

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Thank you for choosing our Autonics product.

Please read the following safety considerations before use.

Safety Considerations

XPlease observe all safety considerations for safe and proper product operation to avoid hazards.

Safety considerations are categorized as follows

∆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. *The symbols used on the product and instruction manual represent the following

♠ symbol represents caution due to special circumstances in which hazards may occur.

∧ Warning

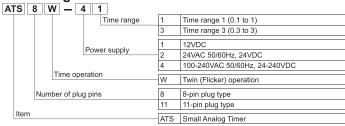
- 1. Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss, (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime/disaster prevention devices, etc.)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

Failure to follow this instruction may result in electric shock or fire.

▲ Caution

- 1. Do not use the unit outdoors.
- Failure to follow this instruction may result in shortening the life cycle of the unit, or electric shock.
- 2. Use the unit within the rated specifications.
- Failure to follow this instruction may result in shortening the life cycle of the unit, or fire
- 3. Do not use loads beyond the rated switching capacity of the relay contact.
- Failure to follow this instruction may result in insulation failure, contact melt, contact failure, relay broken, or fire. 4. Do not use water or oil-based detergent when cleaning the unit. Use dry cloth to clean the unit.
- Failure to follow this instruction may result in electric shock or fire.
- 5. Do not use the unit where flammable or explosive gas, humidity, direct sunlight, radiant heat, vibration, or impact may be present
- Failure to follow this instruction may result in fire or explosion
- 6. Keep dust and wire residue from flowing into the unit. Failure to follow this instruction may result in fire or product damage

Ordering Information



XSockets (PG-08, PS-08(N), PS-M8, PG-11, PS-11(N)) are sold separately.

Unit Description

ON time / cycle range display part ON time / cycle range setting switch Output operation mode display part

(F1, F2, F3, N1, N2, N3 mode) Output operation mode setting switch OFF time range display part OFF time range setting switch



ON operation indicator (red) ON time/cycle setting dial

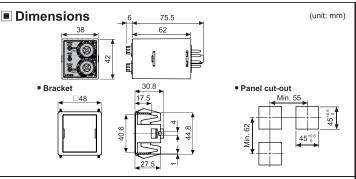
OFF operation indicator (green)

OFF time/ON duty (%) setting dial

Time Specifications

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

**The above specifications are subject to change and some models may be discontinued without



Output Operation Mode Time chart

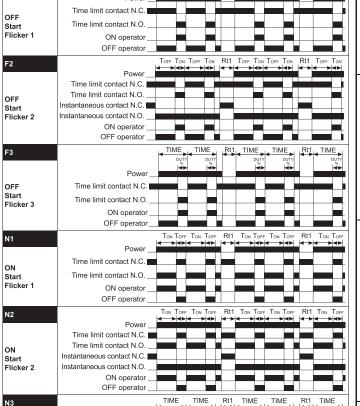
Mode

ON

Start

Flicker 3

[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

Time limit contact N.C.

OFF operator

Time limit contact N.O.

※[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 (%).

Specifications

Model		ATS8W-□1	ATS11W-□1	ATS8W3	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 	z, 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 (24V)	/AC), Max. 2W (24VDC)	•Max. 1.5	W (12VDC)			
Return time		Max. 100ms						
Time operation		Power ON Start						
Control output	Contact type			DT (1c)+Time limit	SPDT (1c) selectable by			
	1	output operation						
	Contact capacity	250VAC 3A resis						
Relay	Mechanical	Min. 10,000,000 operations						
	Electrical	Min. 100,000 operations (250VAC 3A resistive load)						
Repeat error		Max. ±0.2% ±10ms						
Setting error		Max. ±5% ±50ms						
Voltage error		Max. ±0.5%						
Temperature error		Max. ±2%						
Insulation resistance		100MΩ (at 500VDC megger)						
Dielectric strength		2,000VAC 50/60Hz for 1 minute						
Noise resistance		±2kV the square wave noise (pulse width 1μs) by noise simulator						
Vibration	Mechanical				X, Y, Z direction for 1 hour			
	Malfunction				X, Y, Z direction for 10 min			
Shock	Mechanical	300m/s² (approx. 30G) in each X, Y, Z direction 3 times						
	Malfunction	100m/s² (approx. 10G) in each X, Y, Z direction 3 times						
Environ-	Ambient temp.	-10 to 55°C, Storage: -25 to 65°C						
ment	Ambient humid.	35 to 85%RH, Storage: 35 to 85%RH						
Approval		(€ : %! vs						
Accessory		Bracket						
Weight ^{**2}		Approx. 100g (approx. 75g)						
※1: Refer	to time specificati	ons for control time	e setting range by model					

ATS11W

(Instantaneous 1c)

(Time limit 1c)

CONTACT OUT:

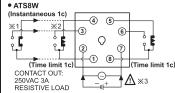
RESISTIVE LOAD

250VAC 3A

X2: The weight includes packaging. The weight in parentheses is for unit only.

XEnvironment resistance is rated at no freezing or condensation

Connections



X1: When selecting [F2], [N2] output operation mode

X2: When selecting [F1], [F3], [N1], [N3] output operation mode X3: AC/DC voltage: 100-240VAC 50/60Hz, 24-240VDC

: 24VAC 50/60Hz, 24VDC

DC voltage: 12VDC

Cautions During Use

1. Connect DC power input after checking polarity of power.

- 2. In case of 12VDC, 24VAC, 24VDC model, isolated and limited voltage/current or Class 2 sources should be provided for power supply
- 3. 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 (%).

5. 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.

6. 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. ①Place where there are severe vibration or impact

②Place where strong alkalis or acids are used.

③Place where there are direct ray of the sun.

Place where strong magnetic field or electric noise are generated.

8 Installation environment ①It shall be used indoor.

@Altitude Max 2000m ③Pollution Degree 2

※Failure to follow these instructions may result in product damage.

Major Products

Photoelectric Sensors Temperature Controllers Fiber Optic Sensors Temperature/Humidity Transducers

Counters Panel Meters

■ Door Side Sensors Area Sensors roximity Sensors

Pressure Sensors ■ Tachometers/Pulse (Rate) Meters Rotary Encoders ■ Connector/Sockets

■ Sensor Controllers Switching Mode Power Supplies
Control Switches/Lamps/Buzzers

I/O Terminal Blocks & Cables tepper Motors/Drivers/Motion Controllers

■ Graphic/Logic Panels Field Network Devices

■ Laser Marking System (Fiber, Co₂, Nd: YAG)
■ Laser Welding/Cutting System

Autonics Corporation http://www.autonics.com

@Installation Category II

(5) (6)

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 \Diamond

(Time limit 1c)

Autonics electronic (Jiaxing) Corporation #301 YUNHAI ROAD Jiaxing, Zhejiang, China

Tel:0573-82161900 Fax:0573-82161917

> Hot Line: 800-857-3141 400-826-7709

> > EP-CE-02-052B