

ATS Series

INSTRUCTION MANUAL

Autonics

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

- ⚠ Caution** Failure to follow instructions may result in injury or product damage.

- ## Cautions during Use

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- The diagram shows a circuit for measuring the time constant of an RC network. A power source is connected in series with a switch. This series combination is connected to a parallel network consisting of a resistor R , a capacitor C , and a timer T .

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- Bracket**
- Technical drawings of the Bracket component showing front, side, and top views with dimensions in millimeters:
- Front view: 38.5 mm width, 42.5 mm height.
 - Side view: 8 mm depth.
 - Top view: 47.1 mm width, 48 mm height.
- Panel cut-out**
- Technical drawings of the Panel cut-out component showing front, side, and top views with dimensions in millimeters:
- Front view: 28.5 mm width, 54 mm height.
 - Side view: 2.5 mm depth.
 - Top view: 36.6 mm width, 40.6 mm height.

Figure 1 shows the front panel of the AT8 Autoniks power supply. It includes a central rotary knob with a scale from 0 to 1.0. Above the knob are 'POWER' and 'OUT' indicators. Below the knob are 'MODE' and 'RANGE' indicators. The bottom of the panel displays 'AT8' and 'Autoniks'.

Display part	Unit	Range	
		ATS-□1□	ATS-□3□
1S	SEC	0.1 to 1	0.3 to 3
10S		1 to 10	3 to 30
1M	MIN	0.1 to 1	0.3 to 3
10M		1 to 10	3 to 30
1H	HOUR	0.1 to 1	0.3 to 3
10H		1 to 10	3 to 30

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Power supply	12 VDC$\pm$ $\pm$10%	24 VAC$\sim$ $\pm$10% 50/ 60 Hz, 24 VDC$\pm$ $\pm$10%	100-240 VAC$\sim$ $\pm$10% 50/ 60 Hz, 24- 240 VDC$\pm$ $\pm$10%
Power consumption	It depends on the plug type and output.		
ATS8-□□□	DC: $\leq$ 1.5 W	AC: $\leq$ 4.5 VA DC: $\leq$ 2 W	AC: $\leq$ 4.2 VA DC: $\leq$ 2 W
ATS11-□□□	DC: $\leq$ 1 W	AC: $\leq$ 4 VA DC: $\leq$ 1.5 W	AC: $\leq$ 3.5 VA DC: $\leq$ 2 W
ATS11-□□E	DC: $\leq$ 1.5 W	AC: $\leq$ 4.5 VA DC: $\leq$ 2 W	AC: $\leq$ 4.2 VA DC: $\leq$ 2 W
Insulation resistive	$\geq$ 100 M Ω (500 VDC $\approx$ megger)		
Dielectric strength	2,000 VAC $\sim$ at 50 / 60 Hz for 1 min		
Noise immunity	It depends on the power supply.		
ATS□-1□□	$\pm$ 500 V square-wave noise by noise simulator (pulse width 1 μ s)		
ATS□-2□□	$\pm$ 2kV square-wave noise by noise simulator (pulse width 1 μ s)		
ATS□-4□□	$\pm$ 2kV square-wave noise by noise simulator (pulse width 1 μ s)		
Vibration	0.75 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 1 hour		
Vibration (malfunction)	0.5 mm double amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 10 min		
Shock	300 m/s ² ($\approx$ 30 G) in each X, Y, Z direction for 3 times		
Shock (malfunction)	100 m/s ² ($\approx$ 10 G) In each X, Y, Z direction for 3 times		
Relay life cycle	Mechanical: $\geq$ 10,000,000 operations Electrical: $\geq$ 100,000 operations (250 VAC $\sim$ 3 A resistive load)		
Ambient temperature	-10 to 55 $^{\circ}$ C, storage: -25 to 65 $^{\circ}$ C (no freezing or condensation)		
Ambient humidity	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)		